General Information

NMOCD District:	Hobbs	Incident ID:	nAPP2530940750
Landowner:	Federal	Facility ID:	fAPP2123136022
Client:	Devon Energy Production Company, L.P.	Site Location:	Fighting Okra 18 CTB 4
Date:	December 19, 2025	Project #:	25A-05936
Client Contact:	Jim Raley	Phone #:	575.689.7597
Vertex PM:	Sally Carttar	Phone #:	575.361.3561

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. The incident occurred November 4, 2025, due to a pinhole leak in the dump line causing a release of 47 barrels (bbls) of produced water onto the active production pad. Of the 47 bbls, approximately 30 bbls were recovered, resulting in 17 bbls of unrecovered produced water that was lost. Areas of environmental concern identified and delineated include: the northeast portion of the production pad within and around the separator area. Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Attachment 1. The closure criteria for the site are presented below.

Table 1. Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
51 feet - 100 feet	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids
TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics
BTEX – benzene, toluene, ethylbenzene, and xylenes
DTGW – depth to groundwater

Site Assessment/Characterization

Site characterization was completed on December 2, 2025. A total of 12 sample points were established and samples collected for field screening. Samples at the shallowest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 28 samples were submitted to Eurofins Laboratory New Mexico for analysis. The sample locations are presented in Attachment 2. Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 3). Exceedances are identified in the table as bold with a grey background. Please note that samples BH25-11 and BH25-12 were corrected from BH25-06 and BH25-07 following a labeling error on the laboratory report chain of custody.

Remedial Activities

General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the

volume of soil to be removed. The horizontal extent has been delineated to strictest criteria, confirming the release area remains on pad. Soil will be excavated to the extents of the known contamination or in 1 foot increments, whichever is less. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

nAPP2530940750 – Northeast Portion of the Production Pad within and Around the Separator Area

Exceedances to closure criteria were found at sample points BH25-08, BH25-09, and BH25-10. Soil will be excavated at a planned depth of 2 feet below ground surface (bgs) around sample point BH25-08, and 1 foot around sample points BH25-09 and BH25-10. A hydrovac truck will be utilized to remove contaminated soil in close proximity to the flowlines. Hand digging will be completed to the safest depths around the separators and surface infrastructure. Heavy equipment will be used to complete excavation outside of the containment. Field screening will be utilized to guide the horizontal and vertical extents of the release area. Confirmatory samples will be collected as per New Mexico Oil Conservation District guidance and submitted for laboratory analysis of all applicable parameters. All areas shown in the release area on Figure 1 (Attachment 2) will have confirmation samples collected. The estimated volume to be excavated is 280 cubic yards. The excavation will be backfilled with clean locally sourced material.

Sample Point	Excavation Depth	Remediation Method
BH25-08	2 ft bgs	Hydrovac/Excavator
BH25-09	1 ft bgs	Excavator
BH25-10	1 ft bgs	Hydrovac/Excavator

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

Katrina Taylor
Katrina Taylor, B.Sc.
ENVIRONMENTAL TECHNICIAN, REPORTING

December 19, 2025
Date

Sally Carttar
Sally Carttar, B.A.
PROJECT MANAGER, REPORT REVIEW

December 19, 2025
Date

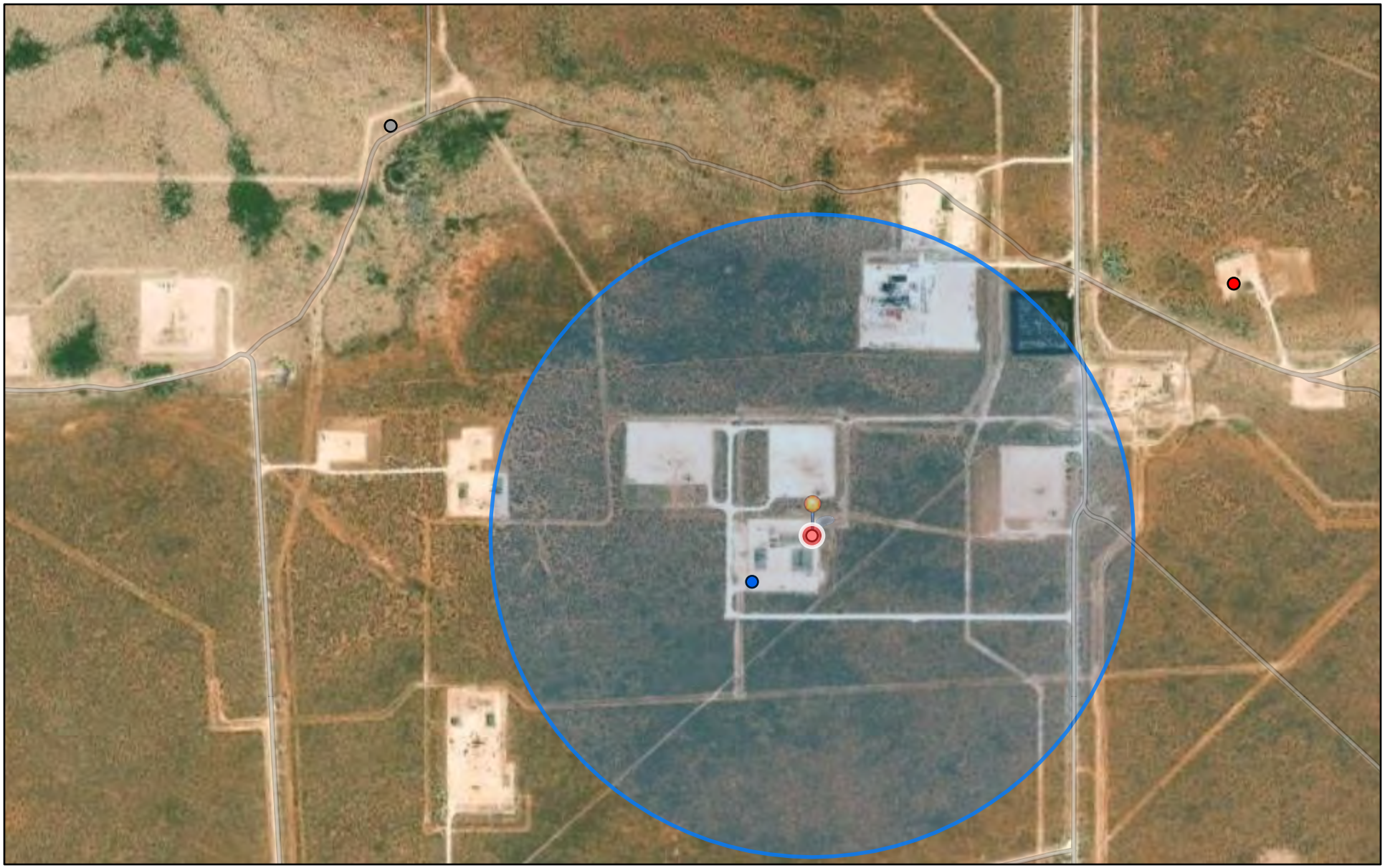
Attachments

Attachment 1. Closure Criteria Research
Attachment 2. Delineation Schematic
Attachment 3. Initial Characterization Laboratory Results and Laboratory Data Reports with Chain of Custody Forms

ATTACHMENT 1

Closure Criteria Determination			
Site Name: Fighting Okra 18 CTB 4			
Spill Coordinates: 32.048397°N 103.508964°W		X: 640769	Y: 3546772
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	**>55**	feet
	Distance between release and nearest DTGW reference	**523**	feet
		0.10	miles
	Date of nearest DTGW reference measurement	**June 9, 2022**	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	10,232	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	2,171	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	17,425	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**	4,076	feet
	ii) Within 1000 feet of any fresh water well or spring	4,076	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	feet
7	Within 300 feet of a wetland	2,171	feet
8	Within the area overlying a subsurface mine	No	feet
	Distance between release and nearest registered mine	160,000	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	2,882	feet
10	Within a 100-year Floodplain	Undetermined	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	98,317	feet
11	Soil Type	Fine sand, fine sandy loam	
12	Ecological Classification	Loamy Sand	
13	Geology	Eolian and piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

OSE POD 0.5 miles



11/23/2025, 3:56:06 PM

GIS WATERS PODs
- Pending
- Active
- Inactive

- Changed Location of Well
- Capped
- Plugged
- Unknown

- Pending
- Active
- Inactive
- Changed Location of Well

- Capped
- Plugged
- Unknown

Low Resolution 15m Imagery
High Resolution 60cm Imagery
High Resolution 30cm Imagery
World Imagery
Citations

1:13,562

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

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

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**
C 04626 POD1		CUB	LE	SE	NE	NW	18	26S	34E	640644.5	3546672.6		159			
C 02295		CUB	LE	NE	NE	SE	12	26S	33E	639864.9	3547624.4		1242	250	200	50
C 02292 POD1		CUB	LE	SE	NW	NE	06	26S	34E	640991.6	3549987.2		3222	200	140	60
C 03442 POD1		C	LE	SE	NW	NE	06	26S	34E	641055.8	3550028.1		3268	251		
C 03441 POD1		C	LE	SE	NW	NE	06	26S	34E	640970.7	3550039.6		3273	250		
C 02293		CUB	LE	NE	NE	NW	14	26S	33E	637500.6	3546975.0		3274	200	135	65
C 02294		CUB	LE	SE	SE	SW	11	26S	33E	637465.4	3547003.1		3311	200	145	55
C 02291		CUB	LE	NW	NW	NE	06	26S	34E	640825.0	3550140.0 *		3368	220	160	60
C 04628 POD1		CUB	LE	NW	NW	NE	01	26S	33E	639120.7	3550219.3		3821			
C 04583 POD1		CUB	LE	SW	SW	SW	15	26S	34E	644919.7	3545643.4		4301	55		
C 02289		CUB	LE	SE	SE	SE	03	26S	33E	636612.0	3548675.0 *		4571	200	160	40
C 02288		CUB	LE	SE	SE	SE	03	26S	33E	636645.9	3548758.5		4576	220	180	40
C 02285 POD1		CUB	LE	NW	SE	SE	03	26S	33E	636612.9	3548855.0		4648	220	220	0
C 02290		CUB	LE	SE	SE	SE	03	26S	33E	636538.0	3548770.9		4679	200	160	40
C 02286		CUB	LE	SW	SE	SE	03	26S	33E	636469.5	3548714.8		4718	220	175	45
C 02287		C	LE	SW	SE	SE	03	26S	33E	636427.4	3548708.1		4753	220		
C 04836 POD1		CUB	LE	SE	SE	SE	21	26S	34E	644618.7	3543853.3		4831	105		

Average Depth to Water: **167 feet**

Minimum Depth: **135 feet**

Maximum Depth: **220 feet**

Record Count: 17

UTM Filters (in meters):
Easting: 640769
Northing: 3546772
Radius: 005000

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

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
NA	C 04626 POD1	SE	NE	NW	18	26S	34E	640644.5	3546672.6	

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

Driller License:	1249	**Driller Company:**	ATKINS ENGINEERING ASSOC. INC.	
Driller Name:	JACKIE ATKINS			
Drill Start Date:	2022-06-09	**Drill Finish Date:**	2022-06-09	**Plug Date:**
Log File Date:	2022-06-16	**PCW Rcv Date:**		**Source:**
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**
Casing Size:		**Depth Well:**		**Depth Water:**

Casing Perforations:

Top	Bottom
0	55

Water Right Summary

get image list

WR File Number:	C 04626	**Subbasin:**	CUB	**Cross Reference:**	
Primary Purpose:	EXP EXPLORATION				
Primary Status:	PMT Permit				
Total Acres:		**Subfile:**		**Header:**	
Total Diversion:	0.000	**Cause/Case:**			
Owner:	DEVON ENERGY	**Owner Class:**	Owner		
Contact:	DALE WOODALL				

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	726171	EXPL	2022-05-24	PMT	APR	C 04626 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 04626 POD1	NA		SE	NE	NW	18	26S	34E	640644.5	3546672.6		

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

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	C-4626

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Devon Energy	575-748-1838

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6488 7 Rivers Hwy	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	2	51.06	N
	LONGITUDE	103	30	37.08	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE NE NW Sec.18 T26S R34S NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
6/9/2022	6/9/2022	Temporary Well	±55	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 6/13/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	55	±6.5	Boring-HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

OSE DII JUN 16 2022 PM 3:05

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4626-POD 1	POD NO. 1	TRN NO. 726171
LOCATION 26.34.18.421	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Sand, Fine-grained, poorly graded, 2.5 YR 3/6, Dark Red	Y ✓ N	
4	9	5	Caliche, with Fine-grained sand, 7.5 YR 7/4, Pink	Y ✓ N	
9	14	5	Caliche, well consolidated, 7.5 YR 7/4, Pink	Y ✓ N	
14	39	25	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
39	55	16	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 75/6, Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
28
Fighting Okra 18 CTB 4

OSE DII JUN 16 2022 PM3:10

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 6/16/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4626-POD 1	POD NO. 1	TRN NO. 726171	
LOCATION 26.34.18.421		WELL TAG ID NO. —	PAGE 2 OF 2

U.S. Fish and Wildlife Service
National Wetlands Inventory

Intermittent, 10,232 feet

November 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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Freshwater Emergent Wetland/Playa, 2,171 feet

November 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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Pond, 27,252 feet

November 23, 2025

Wetlands

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

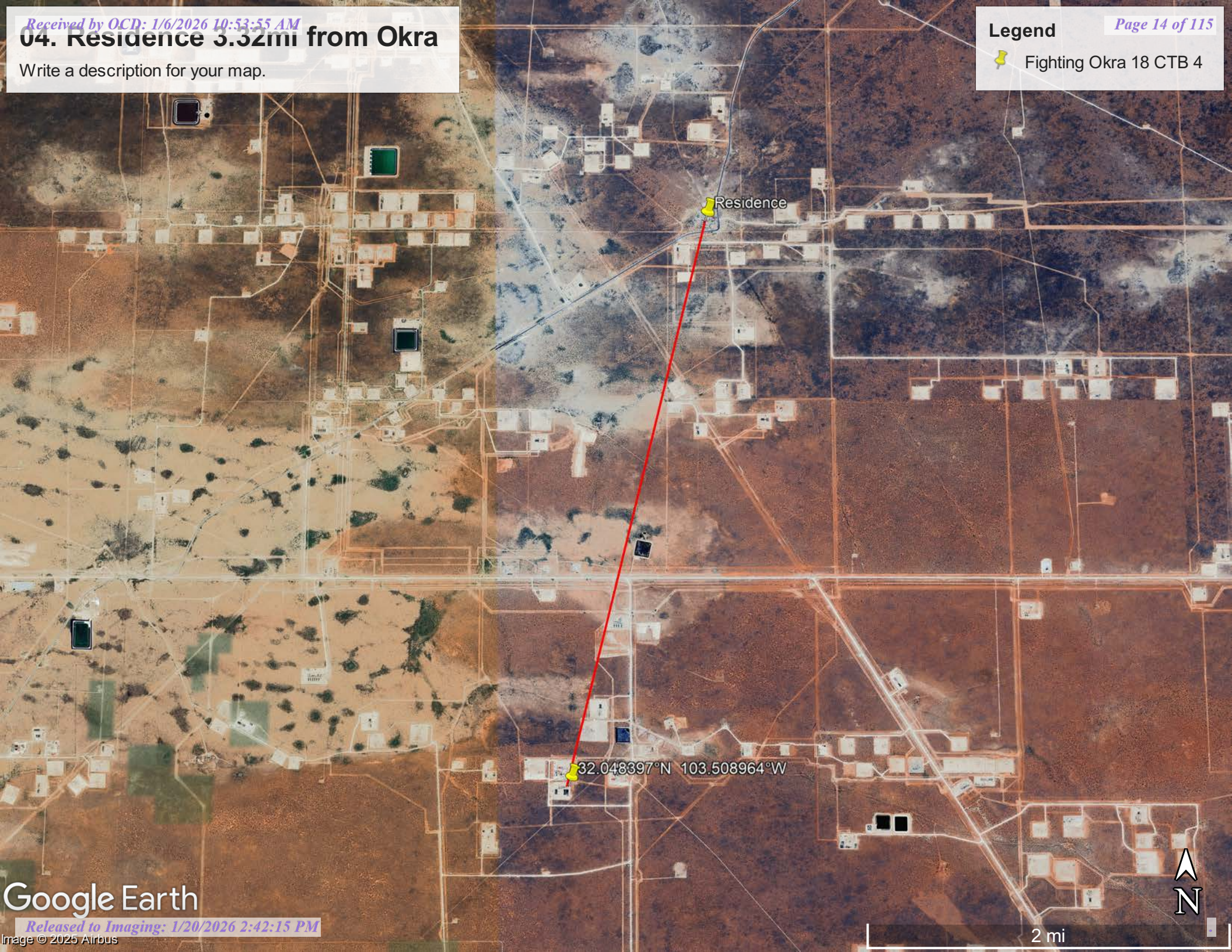
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

04. Residence 3.32mi from Okra

Write a description for your map.

Legend

Fighting Okra 18 CTB 4



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
C 04626	CUB	EXP	0.000	DEVON ENERGY	LE	C 04626 POD1	NA				SE	NE	NW	18	26S	34E	640644.5	3546672.6		159.3
C 04827	CUB	MON	0.000	TETRA TECH ON BEHALF OF CONOCO PHILLIPS	LE	C 04827 POD1	NA			Shallow	NW	SW	SW	08	26S	34E	641658.9	3547317.7		1,043.9
C 02295	CUB	PLS	3.000	INTREPID POTASH NEW MEXICO LLC	LE	C 02295					NE	NE	SE	12	26S	33E	639864.9	3547624.4		1,242.6
C 04964	CUB	MON	0.000	DEVON ENERGY PRODUCTION CO LP	LE	C 04964 POD1	NA				SE	SE	NW	20	26S	34E	642264.2	3544711.8		2,545.6
C 02292	CUB	PLS	3.000	DINWIDDIE CATTLE CO.	LE	C 02292 POD1					SE	NW	NE	06	26S	34E	640991.6	3549987.2		3,222.9
C 03493	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02292 POD1					SE	NW	NE	06	26S	34E	640991.6	3549987.2		3,222.9
C 03442	C	STK	3.000	INTREPID POTASH-NEW MEXICO LLC	LE	C 03442 POD1				Shallow	SE	NW	NE	06	26S	34E	641055.8	3550028.1		3,268.7
C 03477	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 03442 POD1				Shallow	SE	NW	NE	06	26S	34E	641055.8	3550028.1		3,268.7
C 03492	C	PRO	0.000	EOG RESOURCES, INC	LE	C 03442 POD1				Shallow	SE	NW	NE	06	26S	34E	641055.8	3550028.1		3,268.7
C 03441	C	STK	3.000	INTREPID POTASH-NEW MEXICO LLC	LE	C 03441 POD1				Shallow	SE	NW	NE	06	26S	34E	640970.7	3550039.6		3,273.8
C 03491	C	PRO	0.000	EOG RESOURCES, INC	LE	C 03441 POD1				Shallow	SE	NW	NE	06	26S	34E	640970.7	3550039.6		3,273.8
C 02293	CUB	PLS	3.000	DINWIDDIE CATTLE CO.	LE	C 02293					NE	NE	NW	14	26S	33E	637500.6	3546975.0		3,274.7
C 03499	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02293					NE	NE	NW	14	26S	33E	637500.6	3546975.0		3,274.7
C 02294	CUB	PLS	3.000	DINWIDDIE CATTLE CO.	LE	C 02294					SE	SE	SW	11	26S	33E	637465.4	3547003.1		3,311.7
C 03500	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02294					SE	SE	SW	11	26S	33E	637465.4	3547003.1		3,311.7
C 02291	CUB	PLS	3.000	INTREPID POTASH NEW MEXICO LLC	LE	C 02291					NW	NW	NE	06	26S	34E	640825.0	3550140.0 *		3,368.5
C 04628	CUB	EXP	0.000	DEVON ENERGY	LE	C 04628 POD1	NA				NW	NW	NE	01	26S	33E	639120.7	3550219.3		3,821.1
C 04583	CUB	MON	0.000	LUCID ENERGY GROUP	LE	C 04583 POD1	NA				SW	SW	SW	15	26S	34E	644919.7	3545643.4		4,301.4
C 02287	C	STK	3.000	DINWIDDLE CATTLE CO.	LE	C 02287 POD2					SE	SE	SE	03	26S	33E	636612.0	3548675.0 *		4,571.9
C 02289	CUB	PLS	3.000	DINWIDDIE CATTLE COMPANY LLC	LE	C 02289					SE	SE	SE	03	26S	33E	636612.0	3548675.0 *		4,571.9
C 02288	CUB	PLS	3.000	DINWIDDLE CATTLE CO.	LE	C 02288					SE	SE	SE	03	26S	33E	636645.9	3548758.5		4,576.7
C 03497	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02288					SE	SE	SE	03	26S	33E	636645.9	3548758.5		4,576.7
C 04265	CUB	GEO	0.000	EOG RESOUCES	LE	C 04265 POD1	NA				NE	SW	NW	32	25S	34E	641842.1	3551281.5		4,635.4
C 02285	CUB	PLS	3.000	DINWIDDIE CATTLE CO.	LE	C 02285 POD1				Shallow	NW	SE	SE	03	26S	33E	636612.9	3548855.0		4,648.9
C 03494	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02285 POD1				Shallow	NW	SE	SE	03	26S	33E	636612.9	3548855.0		4,648.9
C 02290	CUB	PLS	3.000	DINWIDDLE CATTLE CO.	LE	C 02290					SE	SE	SE	03	26S	33E	636538.0	3548770.9		4,679.4
C 03498	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02290					SE	SE	SE	03	26S	33E	636538.0	3548770.9		4,679.4
C 02286	CUB	PLS	3.000	DINWIDDLE CATTLE CO.	LE	C 02286					SW	SE	SE	03	26S	33E	636469.5	3548714.8		4,718.1
C 03495	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02286					SW	SE	SE	03	26S	33E	636469.5	3548714.8		4,718.1
C 02287	C	STK	3.000	DINWIDDLE CATTLE CO.	LE	C 02287					SW	SE	SE	03	26S	33E	636427.4	3548708.1		4,753.7
C 03496	C	PRO	0.000	EOG RESOURCES, INC.	LE	C 02287					SW	SE	SE	03	26S	33E	636427.4	3548708.1		4,753.7
C 04836	CUB	MON	0.000	DEVON ENERGY PRODUCTION COMPAN	LE	C 04836 POD1	NA				SE	SE	SE	21	26S	34E	644618.7	3543853.3		4,831.0

Record Count: 32

Filters Applied:

UTM Filters (in meters):
Easting: 640769
Northing: 3546772
Radius: 005000

Sorted By: Distance

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

11/23/25 3:04 PM MST **Active & Inactive Points of Diversion**

Water Right Summary

get image list

WR File Number:	C 02295	**Subbasin:**	CUB	**Cross Reference:**
Primary Purpose:	PLS NON 72-12-1 LIVESTOCK WATERING			
Primary Status:	DCL Declaration			
Total Acres:	0.000	**Subfile:**		**Header:**
Total Diversion:	3.000	**Cause/Case:**		
Owner:	INTREPID POTASH NEW MEXICO LLC	**Owner Class:**	Owner	
Contact:	KATIE KELLER			

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	673898	UWL	2020-05-15	UWL	ACC	C 02295	T	0.000	0.000	
get images	652904	COWNF	2019-06-11	CHG	PRC	C 02295	T	0.000	0.000	
get images	648787	COWNF	2019-03-20	CHG	PRC	C 02295	T	0.000	0.000	
get images	198381	DCL	1993-02-02	DCL	PRC	C-02295	T	0.000	3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 02295			NE	NE	SE	12	26S	33E	639864.9	3547624.4		

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

Priority Summary

Priority	Status	Acres	Diversion	POD Number	Source
1949-12-31	DCL	0.000	3.000	C 02295	

Place of Use

Q256	Q64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0.000	3.000		PLS	1943-12-31	DCL	NO PLACE OF USE GIVEN

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland, 2,171 feet

November 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.

Potash, 160,000 feet

11/23/2025, 4:04:32 PM

1:288,895

0 2 4 8 mi

0 3.25 6.5 13 km

Registered Mines

Aggregate, Stone etc.

Aggregate, Stone etc.

Aggregate, Stone etc.

Aggregate, Stone etc.

Potash

PLSS Townships

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

EMNRD MMD GIS Coordinator

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

09. Unstable Karst 0.55mi from Fighting Okra 18 CTB 4

11/13/2025, 9:54:48 AM

Karst Occurrence Potential

Low

Medium

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

BLM, OCD, New Mexico Tech, Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors.

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map, http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f6f35ca75, New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMette

FEMA

103°30'51"W 32°3'9"N

103°30'14"W 32°2'39"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

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

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

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

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

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

N

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

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

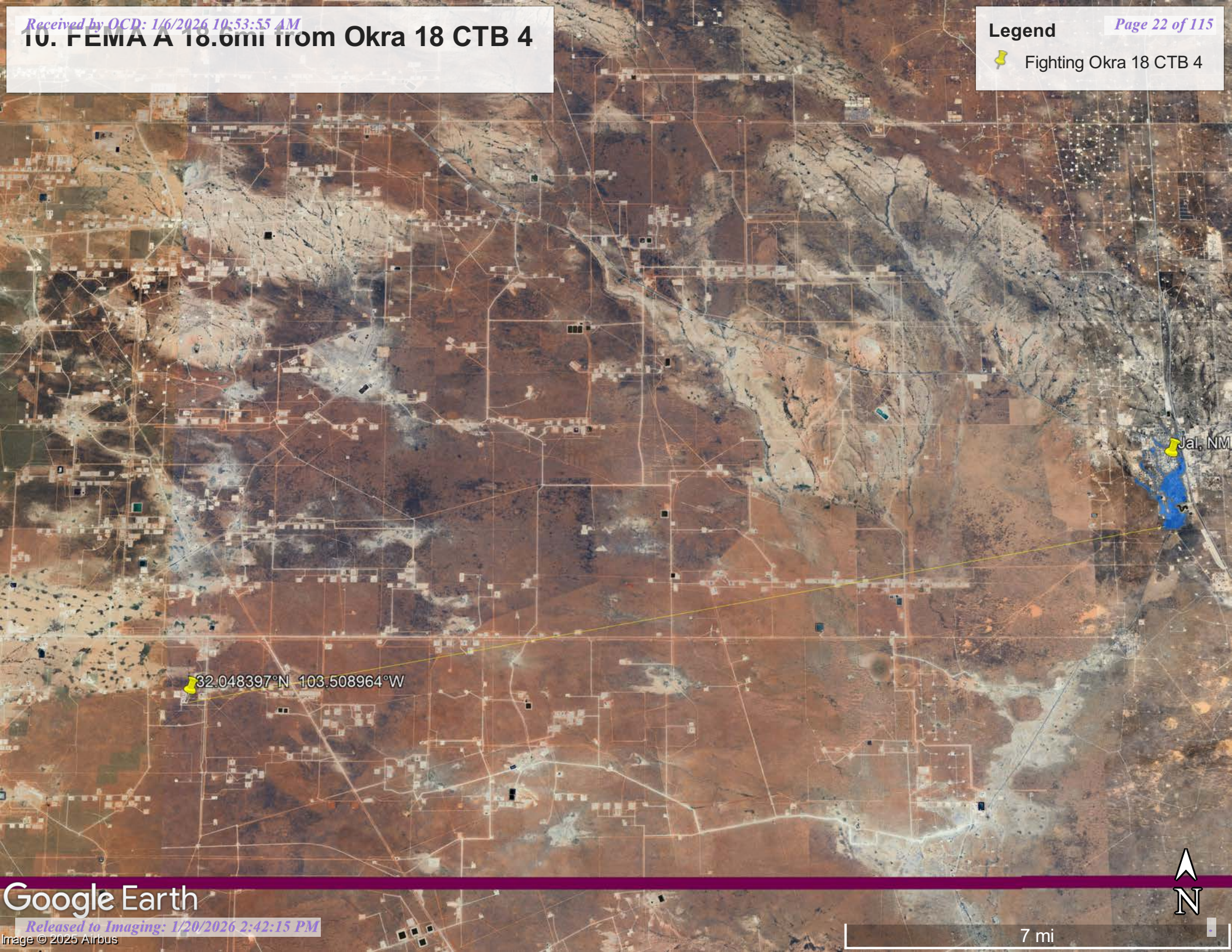
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/23/2025 at 11:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.

10. FEMA A 18.6mi from Okra 18 CTB 4

Legend

Fighting Okra 18 CTB 4



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

November 13, 2025

Custom Soil Resource Report
Soil Map

MAP LEGEND

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

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

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

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 22, Sep 9, 2025

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	16.1	100.0%
Totals for Area of Interest		**16.1**	**100.0%**

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

USDA Natural Resources Conservation Service

Ecological site R070BD003NM
Loamy Sand

Accessed: 11/13/2025

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.

Associated sites

R070BD004NM	**Sandy** Sandy
R070BD005NM	**Deep Sand** Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont (2) Alluvial fan (3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.
Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.
The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.
Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

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

Table 3. Representative climatic features

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

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:
Maljamar
Berino
Parjarito
Palomas
Wink
Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm

Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

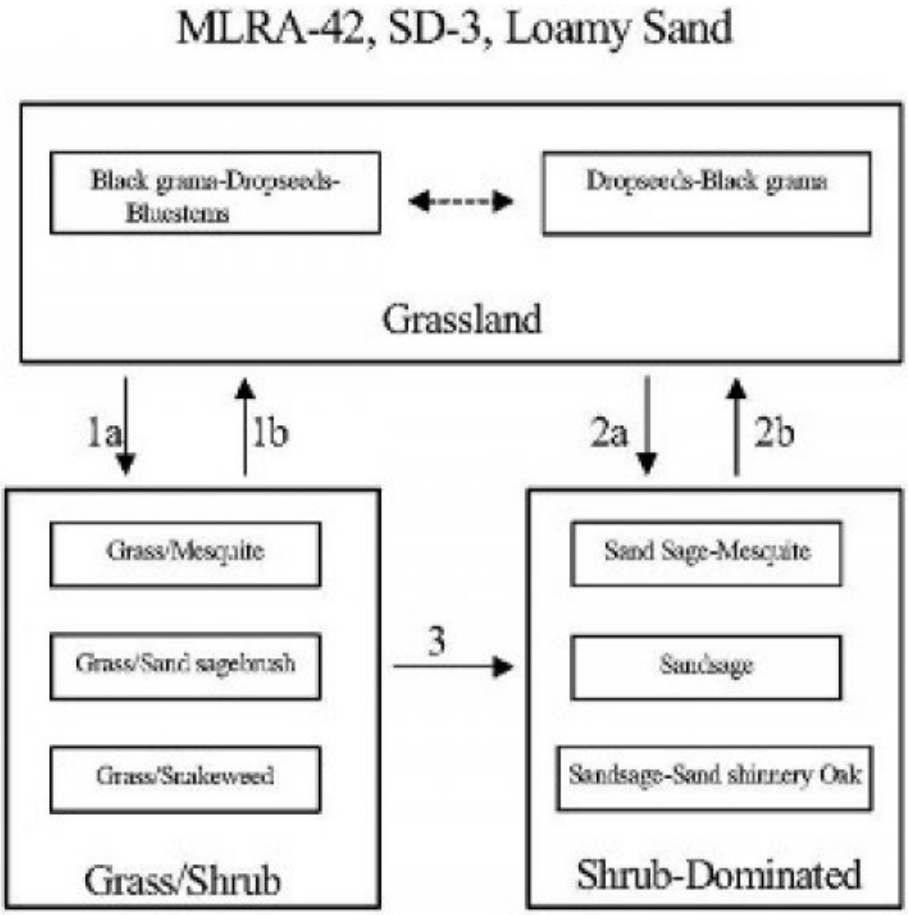
Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):



1a. Drought, over grazing, fire suppression.
1b. Brush control, prescribed grazing

2.a Severe loss of grass cover, fire suppression, erosion.
2b. Brush control, seeding, prescribed grazing.

3. Continued loss of grass cover, erosion.

State 1
Historic Climax Plant Community

Community 1.1
Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	**650**	**1225**	**1800**

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2
Grass/Shrub

Community 2.1
Grass/Shrub

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed

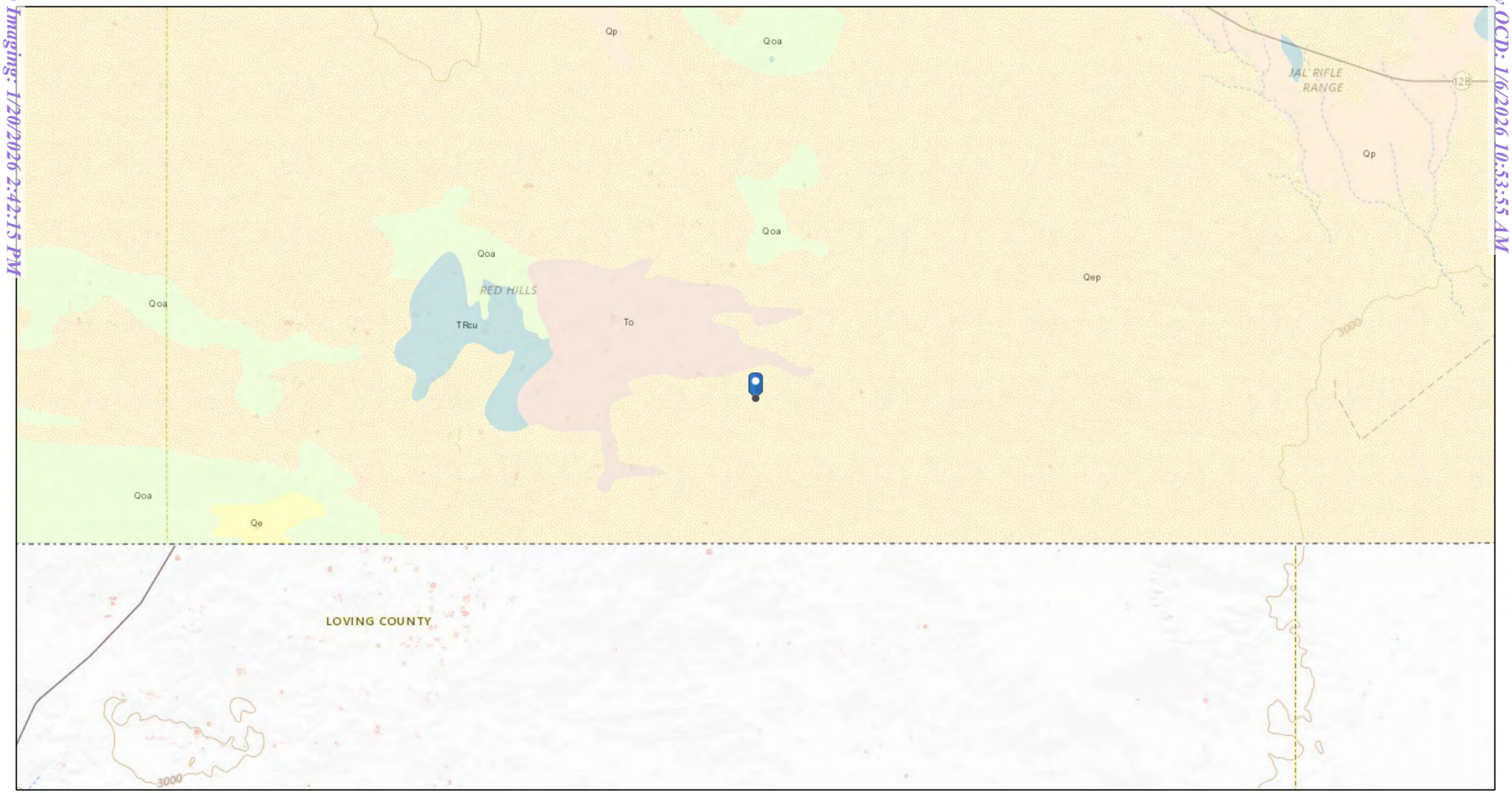
to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3
Shrub Dominated

Community 3.1
Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn

Fighting Okra 18 Fed 1 Qep Geology



5/26/2020, 12:49:36 PM

1:144,448

0 1.5 3 6 mi

0 2.5 5 10 km

Faults

- Fault, Exposed
- Fault, Intermittent
- Fault, Concealed
- Shere Zone

Dikes

- <all other values>
- Dike
- Dike intruding fault
- Volcanic Vents

STATEMAP (1993 to Present) [Publications]

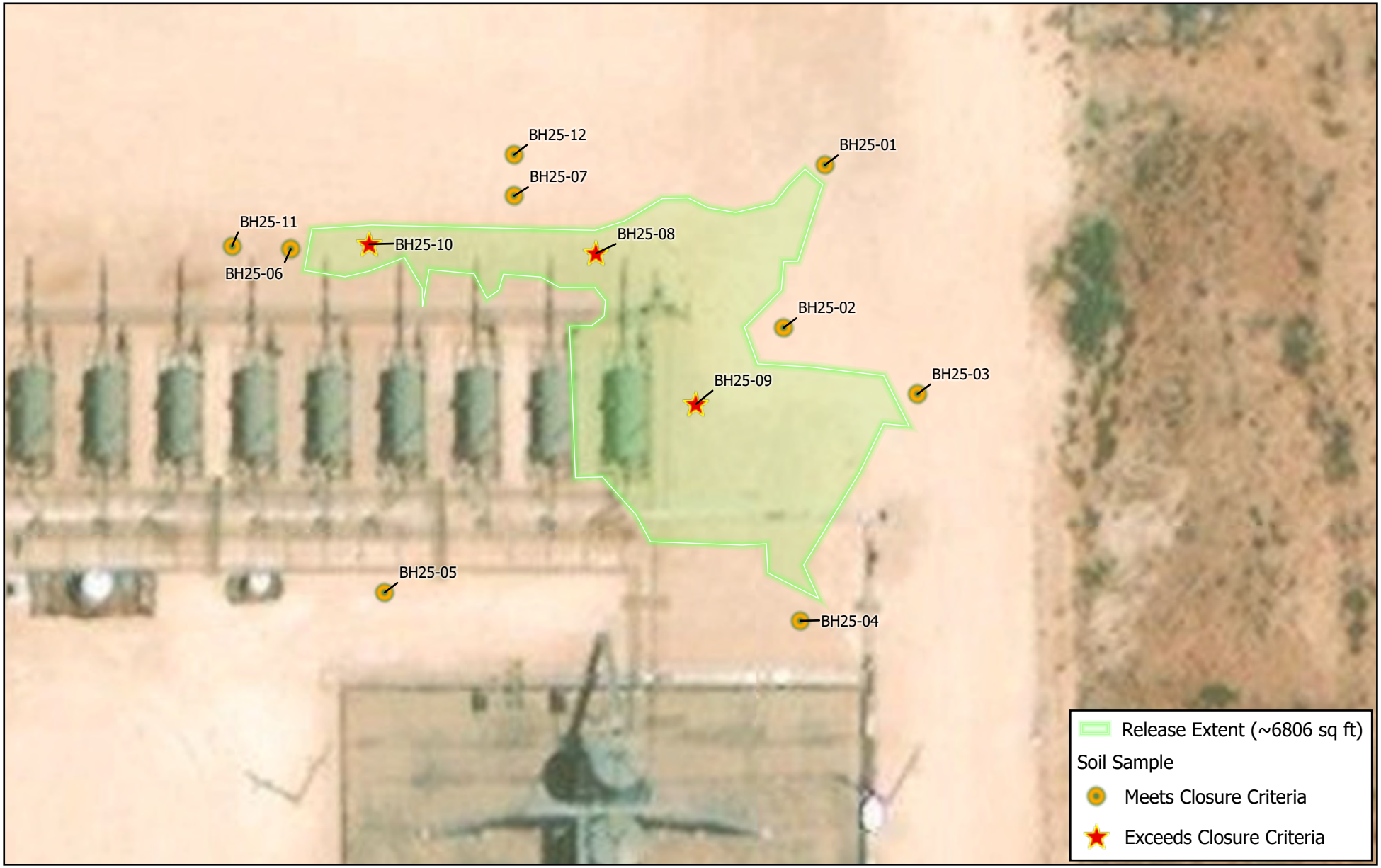
- Mapping in Complete
- Mapping in Progress

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

Web AppBuilder for ArcGIS

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

ATTACHMENT 2



VERTEX

0 20 40 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.048307°N, 103.509111°W

Date: Dec 14/25

N

Delineation Schematic
Fighting Okra 18 CTB 4

FIGURE:
1

devon

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.

ATTACHMENT 3

Client Name: Devon Energy Production Company L.P.
Site Name: Fighting Okra 18 CTB 4
NMOCD Tracking #: nAPP2530940750
Project #: 25A-05936
Lab Report: 885-38107 and 885-38855

Table 2. Initial Characterization Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
						Volatile		Extractable					
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Depth to Groundwater 51-100 feet bgs										
BH25-01	0	November 17, 2025	-	21	365	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 17, 2025	-	16	118	ND	ND	ND	ND	ND	ND	ND	ND
BH25-02	0	November 17, 2025	-	19	223	ND	ND	ND	ND	ND	ND	ND	120
	2	November 17, 2025	-	18	210	ND	ND	ND	ND	ND	ND	ND	ND
BH25-03	0	November 17, 2025	-	20	210	ND	ND	ND	ND	ND	ND	ND	51
	2	November 17, 2025	-	23	145	ND	ND	ND	ND	ND	ND	ND	ND
BH25-04	0	November 17, 2025	-	24	195	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 17, 2025	-	14	188	ND	ND	ND	ND	ND	ND	ND	ND
BH25-05	0	November 19, 2025	-	33	500	ND	ND	ND	ND	ND	ND	ND	260
	2	November 19, 2025	-	13	298	ND	ND	ND	ND	ND	ND	ND	170
BH25-06	0	November 18, 2025	-	36	333	ND	ND	ND	30	99	30	129	190
	2	November 18, 2025	-	24	83	ND	ND	ND	ND	ND	ND	ND	ND
BH25-07	0	November 18, 2025	-	70	353	ND	ND	ND	41	74	41	115	180
	2	November 18, 2025	-	21	68	ND	ND	ND	ND	ND	ND	ND	ND
BH25-08	1	November 18, 2025	-	>2500	2,373	0.027	9.927	220	3,300	900	**3,520**	**4,420**	3,500
	2	November 18, 2025	-	23	3,320	ND	ND	ND	ND	ND	ND	ND	52
	3	November 18, 2025	-	30	1,643	-	-	-	-	-	-	-	-
	4	November 18, 2025	-	-	940	-	-	-	-	-	-	-	-
	5	November 18, 2025	-	-	1,085	-	-	-	-	-	-	-	-
BH25-09	0	November 18, 2025	-	1,658	5,533	ND	1.44	56	3,000	930	**3,056**	**3,986**	5,800
	1	November 18, 2025	-	42	2,398	ND	ND	ND	ND	ND	ND	ND	2,400
	3	November 18, 2025	-	34	340	ND	ND	ND	ND	ND	ND	ND	3,800
BH25-10	0.5	November 19, 2025	-	>2500	3,815	ND	39.7	720	11,000	3,000	**11,720**	**14,720**	150
	1	November 19, 2025	-	44	114	ND	ND	ND	ND	ND	ND	ND	ND
	2	November 19, 2025	-		160	-	-	-	-	-	-	-	-
BH25-11	0	December 2, 2025	-	86	522	ND	ND	ND	20	ND	20	20	210
	2	December 2, 2025	-	20	440	ND	ND	ND	ND	ND	ND	ND	86
BH25-12	0	December 2, 2025	-	11	448	ND	ND	ND	ND	ND	ND	ND	92
	2	December 2, 2025	-	7	255	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 Closure Criteria (on-pad)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kent Stallings
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 12/2/2025 7:59:49 AM

JOB DESCRIPTION

Fighting Okra 18 CTB 4

JOB NUMBER

885-38107-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
12/2/2025 7:59:49 AM

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

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Laboratory Job ID: 885-38107-1

Table of Contents

Definitions/Glossary

Client: Vertex Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Qualifiers

GC VOA

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

GC Semi VOA

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.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

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: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Job ID: 885-38107-1 Eurofins Albuquerque

Job Narrative
885-38107-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/21/2025 8:00 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
Method 8015D_GRO: Surrogate recovery for the following samples were outside control limits: BH25-8 1' (885-38107-15), BH25-9 0' (885-38107-17) and BH25-10 0.5' (885-38107-20). Evidence of matrix interference is present; 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.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH25-8 1' (885-38107-15). Evidence of matrix interference is present; 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.

Diesel Range Organics
Method 8015D_DRO: The following sample(s) required a dilution due to the nature of the sample matrix: Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

HPLC/IC
Method 300_OF_28D_PREC: The matrix spike (MS) recoveries for preparation batch 885-38917 and analytical batch 885-38919 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-01 0'

Date Collected: 11/17/25 11:10
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 02:28*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 02:28	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 02:28	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 02:28	1
Xylenes, Total	ND		0.098		mg/Kg		11/21/25 13:28	11/23/25 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*11/21/25 13:28*	*11/23/25 02:28*	*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		9.8		mg/Kg		11/21/25 15:45	11/24/25 12:28	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/21/25 15:45	11/24/25 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*11/21/25 15:45*	*11/24/25 12:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	F1	50		mg/Kg		11/21/25 17:48	11/22/25 10:36	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-01 2'

Date Collected: 11/17/25 11:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 13:28	11/23/25 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 03:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 03:39	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 03:39	1
Toluene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 03:39	1
Xylenes, Total	ND		0.10		mg/Kg		11/21/25 13:28	11/23/25 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*11/21/25 13:28*	*11/23/25 03:39*	*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		11/21/25 15:45	11/24/25 12:40	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/21/25 15:45	11/24/25 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*11/21/25 15:45*	*11/24/25 12:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		11/21/25 17:48	11/22/25 11:18	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-02 0'

Date Collected: 11/17/25 12:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		11/21/25 13:28	11/23/25 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 150*	*11/21/25 13:28*	*11/23/25 04:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 04:50	1
Ethylbenzene	ND		0.048		mg/Kg		11/21/25 13:28	11/23/25 04:50	1
Toluene	ND		0.048		mg/Kg		11/21/25 13:28	11/23/25 04:50	1
Xylenes, Total	ND		0.097		mg/Kg		11/21/25 13:28	11/23/25 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*11/21/25 13:28*	*11/23/25 04:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		11/21/25 15:45	11/24/25 12:52	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/21/25 15:45	11/24/25 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*11/21/25 15:45*	*11/24/25 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		51		mg/Kg		11/21/25 17:48	11/22/25 12:01	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-02 2'

Date Collected: 11/17/25 12:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 05:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 05:14	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 05:14	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 05:14	1
Xylenes, Total	ND		0.097		mg/Kg		11/21/25 13:28	11/23/25 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*11/21/25 13:28*	*11/23/25 05:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		11/21/25 15:45	11/24/25 13:03	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/21/25 15:45	11/24/25 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*11/21/25 15:45*	*11/24/25 13:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51		mg/Kg		11/21/25 17:48	11/22/25 12:15	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-03 0'

Date Collected: 11/17/25 13:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 05:38*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 05:38	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 05:38	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 05:38	1
Xylenes, Total	ND		0.099		mg/Kg		11/21/25 13:28	11/23/25 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 13:28*	*11/23/25 05:38*	*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		9.3		mg/Kg		11/21/25 15:45	11/24/25 13:15	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/21/25 15:45	11/24/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*11/21/25 15:45*	*11/24/25 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51**		50		mg/Kg		11/21/25 17:48	11/22/25 12:57	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-03 2'

Date Collected: 11/17/25 13:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 13:28	11/23/25 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 06:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 06:01	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 06:01	1
Toluene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 06:01	1
Xylenes, Total	ND		0.099		mg/Kg		11/21/25 13:28	11/23/25 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*	*11/21/25 13:28*	*11/23/25 06:01*	*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		9.2		mg/Kg		11/21/25 15:45	11/24/25 13:27	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		11/21/25 15:45	11/24/25 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*11/21/25 15:45*	*11/24/25 13:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		11/21/25 17:48	11/22/25 13:12	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-04 0'

Date Collected: 11/17/25 14:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 150*	*11/21/25 13:28*	*11/23/25 06:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 06:25	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 06:25	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 06:25	1
Xylenes, Total	ND		0.098		mg/Kg		11/21/25 13:28	11/23/25 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 13:28*	*11/23/25 06:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		11/21/25 15:45	11/24/25 13:38	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/21/25 15:45	11/24/25 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/21/25 15:45*	*11/24/25 13:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		11/21/25 17:48	11/22/25 13:26	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-04 2'

Date Collected: 11/17/25 14:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 150*	*11/21/25 13:28*	*11/23/25 06:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 06:48	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 06:48	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 06:48	1
Xylenes, Total	ND		0.097		mg/Kg		11/21/25 13:28	11/23/25 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 13:28*	*11/23/25 06:48*	*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		9.8		mg/Kg		11/21/25 15:45	11/24/25 13:50	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/21/25 15:45	11/24/25 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*11/21/25 15:45*	*11/24/25 13:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		11/21/25 17:48	11/22/25 13:40	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-05 0'

Date Collected: 11/19/25 15:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 13:28	11/23/25 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 150*	*11/21/25 13:28*	*11/23/25 07:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 07:12	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 07:12	1
Toluene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 07:12	1
Xylenes, Total	ND		0.099		mg/Kg		11/21/25 13:28	11/23/25 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 13:28*	*11/23/25 07:12*	*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		11/21/25 15:45	11/24/25 14:13	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/21/25 15:45	11/24/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*11/21/25 15:45*	*11/24/25 14:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		49		mg/Kg		11/21/25 17:48	11/22/25 13:54	10

Client Sample Results

Client: Vertex
Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Client Sample ID: BH25-05 2'
Lab Sample ID: 885-38107-10
Date Collected: 11/19/25 15:30
Matrix: Solid
Date Received: 11/21/25 08:00

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		11/21/25 13:28	11/23/25 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 07:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 07:36	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 07:36	1
Toluene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 07:36	1
Xylenes, Total	ND		0.099		mg/Kg		11/21/25 13:28	11/23/25 07:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*11/21/25 13:28*	*11/23/25 07:36*	*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		11/21/25 15:45	11/24/25 14:25	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/21/25 15:45	11/24/25 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/21/25 15:45*	*11/24/25 14:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		50		mg/Kg		11/21/25 17:48	11/22/25 14:08	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-06 0'

Date Collected: 11/18/25 11:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*11/21/25 13:28*	*11/23/25 08:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 08:23	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 08:23	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 08:23	1
Xylenes, Total	ND		0.097		mg/Kg		11/21/25 13:28	11/23/25 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*11/21/25 13:28*	*11/23/25 08:23*	*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]	**30**		9.6		mg/Kg		11/21/25 15:45	11/24/25 14:37	1
Motor Oil Range Organics [C28-C40]	**99**		48		mg/Kg		11/21/25 15:45	11/24/25 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*11/21/25 15:45*	*11/24/25 14:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		50		mg/Kg		11/21/25 17:48	11/22/25 14:22	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-06 2'

Date Collected: 11/18/25 11:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 150*	*11/21/25 13:28*	*11/23/25 08:46*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 08:46	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 08:46	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 08:46	1
Xylenes, Total	ND		0.099		mg/Kg		11/21/25 13:28	11/23/25 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*11/21/25 13:28*	*11/23/25 08:46*	*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		9.5		mg/Kg		11/21/25 15:45	11/24/25 14:48	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/21/25 15:45	11/24/25 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*11/21/25 15:45*	*11/24/25 14:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		11/21/25 17:48	11/22/25 14:36	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-07 0'
Date Collected: 11/18/25 12:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 09:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 13:28*	*11/23/25 09:10*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 09:10	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 09:10	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 09:10	1
Xylenes, Total	ND		0.098		mg/Kg		11/21/25 13:28	11/23/25 09:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 150*	*11/21/25 13:28*	*11/23/25 09:10*	*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]	**41**		10		mg/Kg		11/21/25 15:45	11/24/25 15:00	1
Motor Oil Range Organics [C28-C40]	**74**		50		mg/Kg		11/21/25 15:45	11/24/25 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*	*11/21/25 15:45*	*11/24/25 15:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		49		mg/Kg		11/21/25 17:48	11/22/25 14:51	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-07 2'

Date Collected: 11/18/25 12:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 13:28	11/23/25 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*11/21/25 13:28*	*11/23/25 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		11/21/25 13:28	11/23/25 09:34	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 09:34	1
Toluene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 09:34	1
Xylenes, Total	ND		0.10		mg/Kg		11/21/25 13:28	11/23/25 09:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 150*	*11/21/25 13:28*	*11/23/25 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]	ND		9.7		mg/Kg		11/21/25 15:45	11/24/25 16:34	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/21/25 15:45	11/24/25 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*11/21/25 15:45*	*11/24/25 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		51		mg/Kg		11/21/25 17:48	11/22/25 15:05	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-8 1'

Date Collected: 11/18/25 13:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	220		4.9		mg/Kg		11/21/25 13:28	11/23/25 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*363*	*S1+*	*15 - 150*	*11/21/25 13:28*	*11/23/25 09:57*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.027		0.025		mg/Kg		11/21/25 13:28	11/23/25 09:57	1
Ethylbenzene	0.85		0.049		mg/Kg		11/21/25 13:28	11/23/25 09:57	1
Toluene	0.85		0.049		mg/Kg		11/21/25 13:28	11/23/25 09:57	1
Xylenes, Total	8.2		0.099		mg/Kg		11/21/25 13:28	11/23/25 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*163*	*S1+*	*15 - 150*	*11/21/25 13:28*	*11/23/25 09:57*	*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]	3300		95		mg/Kg		11/21/25 15:45	11/26/25 12:12	10
Motor Oil Range Organics [C28-C40]	900		470		mg/Kg		11/21/25 15:45	11/26/25 12:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*11/21/25 15:45*	*11/26/25 12:12*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		50		mg/Kg		11/21/25 17:48	11/22/25 15:47	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-8 2'

Date Collected: 11/18/25 13:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*15 - 150*	*11/21/25 13:28*	*11/23/25 10:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		11/21/25 13:28	11/23/25 10:21	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 10:21	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 10:21	1
Xylenes, Total	ND		0.098		mg/Kg		11/21/25 13:28	11/23/25 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*11/21/25 13:28*	*11/23/25 10:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		11/21/25 15:45	11/26/25 12:36	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		11/21/25 15:45	11/26/25 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/21/25 15:45*	*11/26/25 12:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52**		51		mg/Kg		11/21/25 17:48	11/22/25 16:01	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-9 0'

Date Collected: 11/18/25 14:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-17

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**56**		4.9		mg/Kg		11/21/25 13:28	11/23/25 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*202*	*S1+*	*15 - 150*	*11/21/25 13:28*	*11/23/25 10:44*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 10:44	1
Ethylbenzene	**0.14**		0.049		mg/Kg		11/21/25 13:28	11/23/25 10:44	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 10:44	1
Xylenes, Total	**1.3**		0.099		mg/Kg		11/21/25 13:28	11/23/25 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*15 - 150*	*11/21/25 13:28*	*11/23/25 10:44*	*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]	**3000**		95		mg/Kg		11/21/25 15:45	11/26/25 12:59	10
Motor Oil Range Organics [C28-C40]	**930**		480		mg/Kg		11/21/25 15:45	11/26/25 12:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*D S1-*	*62 - 134*	*11/21/25 15:45*	*11/26/25 12:59*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5800**		50		mg/Kg		11/21/25 17:48	11/22/25 16:15	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-9 1'
Date Collected: 11/18/25 15:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 13:28	11/23/25 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 150*	*11/21/25 13:28*	*11/23/25 11:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 11:08	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 11:08	1
Toluene	ND		0.049		mg/Kg		11/21/25 13:28	11/23/25 11:08	1
Xylenes, Total	ND		0.099		mg/Kg		11/21/25 13:28	11/23/25 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*11/21/25 13:28*	*11/23/25 11:08*	*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		10		mg/Kg		11/21/25 15:45	11/26/25 13:22	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/21/25 15:45	11/26/25 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*11/21/25 15:45*	*11/26/25 13:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2400**		51		mg/Kg		11/21/25 17:48	11/22/25 16:30	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-9 3'

Date Collected: 11/18/25 15:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 13:28	11/23/25 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*11/21/25 13:28*	*11/23/25 11:32*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 13:28	11/23/25 11:32	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 11:32	1
Toluene	ND		0.050		mg/Kg		11/21/25 13:28	11/23/25 11:32	1
Xylenes, Total	ND		0.10		mg/Kg		11/21/25 13:28	11/23/25 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 150*	*11/21/25 13:28*	*11/23/25 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]	**19**		9.7		mg/Kg		11/21/25 15:45	11/24/25 17:44	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		11/21/25 15:45	11/24/25 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*11/21/25 15:45*	*11/24/25 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3800**		50		mg/Kg		11/21/25 17:48	11/22/25 16:44	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-10 0.5'

Date Collected: 11/19/25 14:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	720		25		mg/Kg		11/21/25 13:28	11/23/25 11:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*278*	*S1+*	*15 - 150*	*11/21/25 13:28*	*11/23/25 11:56*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.12		mg/Kg		11/21/25 13:28	11/23/25 11:56	5
Ethylbenzene	3.2		0.25		mg/Kg		11/21/25 13:28	11/23/25 11:56	5
Toluene	3.5		0.25		mg/Kg		11/21/25 13:28	11/23/25 11:56	5
Xylenes, Total	33		0.49		mg/Kg		11/21/25 13:28	11/23/25 11:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*		*15 - 150*	*11/21/25 13:28*	*11/23/25 11:56*	*5*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11000		190		mg/Kg		11/21/25 15:45	11/26/25 13:45	20
Motor Oil Range Organics [C28-C40]	3000		960		mg/Kg		11/21/25 15:45	11/26/25 13:45	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*11/21/25 15:45*	*11/26/25 13:45*	*20*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		50		mg/Kg		11/21/25 17:48	11/22/25 16:58	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-10 1'

Date Collected: 11/19/25 14:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-21

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		11/21/25 14:55	11/24/25 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*11/21/25 14:55*	*11/24/25 13:37*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 14:55	11/24/25 13:37	1
Ethylbenzene	ND		0.049		mg/Kg		11/21/25 14:55	11/24/25 13:37	1
Toluene	ND		0.049		mg/Kg		11/21/25 14:55	11/24/25 13:37	1
Xylenes, Total	ND		0.098		mg/Kg		11/21/25 14:55	11/24/25 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 14:55*	*11/24/25 13:37*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		11/24/25 14:30	11/24/25 19:15	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		11/24/25 14:30	11/24/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*11/24/25 14:30*	*11/24/25 19:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		11/21/25 18:10	11/22/25 10:50	10

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

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

Lab Sample ID: MB 885-38889/1-A
Matrix: Solid
Analysis Batch: 38923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38889

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 13:28	11/23/25 02:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 150*	*11/21/25 13:28*	*11/23/25 02:04*	*1*

Lab Sample ID: LCS 885-38889/2-A
Matrix: Solid
Analysis Batch: 38923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38889

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	24.9		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*210*		*15 - 150*

Lab Sample ID: 885-38107-1 MS
Matrix: Solid
Analysis Batch: 38923

Client Sample ID: BH25-01 0'
Prep Type: Total/NA
Prep Batch: 38889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	ND		24.3	24.6		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*216*		*15 - 150*

Lab Sample ID: 885-38107-1 MSD
Matrix: Solid
Analysis Batch: 38923

Client Sample ID: BH25-01 0'
Prep Type: Total/NA
Prep Batch: 38889

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		24.4	23.2		mg/Kg		95	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*		*15 - 150*

Lab Sample ID: MB 885-38894/1-A
Matrix: Solid
Analysis Batch: 38932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38894

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		11/21/25 14:55	11/24/25 09:40	1

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

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

Lab Sample ID: MB 885-38894/1-A
Matrix: Solid
Analysis Batch: 38932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38894

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 150	11/21/25 14:55	11/24/25 09:40	1

Lab Sample ID: LCS 885-38894/2-A
Matrix: Solid
Analysis Batch: 38932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	27.5		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	200		15 - 150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-38889/1-A
Matrix: Solid
Analysis Batch: 38924

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38889

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		11/21/25 13:28	11/23/25 02:04	1
Ethylbenzene	ND		0.050	mg/Kg		11/21/25 13:28	11/23/25 02:04	1
Toluene	ND		0.050	mg/Kg		11/21/25 13:28	11/23/25 02:04	1
Xylenes, Total	ND		0.10	mg/Kg		11/21/25 13:28	11/23/25 02:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 150	11/21/25 13:28	11/23/25 02:04	1

Lab Sample ID: LCS 885-38889/3-A
Matrix: Solid
Analysis Batch: 38924

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.818		mg/Kg		82	70 - 130
Ethylbenzene	1.00	0.817		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	2.00	1.66		mg/Kg		83	70 - 130
o-Xylene	1.00	0.815		mg/Kg		81	70 - 130
Toluene	1.00	0.837		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		15 - 150

Lab Sample ID: 885-38107-2 MS
Matrix: Solid
Analysis Batch: 38924

Client Sample ID: BH25-01 2'
Prep Type: Total/NA
Prep Batch: 38889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.992	0.917		mg/Kg		92	70 - 130

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

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

Lab Sample ID: 885-38107-2 MS
Matrix: Solid
Analysis Batch: 38924

Client Sample ID: BH25-01 2'
Prep Type: Total/NA
Prep Batch: 38889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	ND		0.992	0.933		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	ND		1.98	1.83		mg/Kg		92	70 - 130
o-Xylene	ND		0.992	0.935		mg/Kg		94	70 - 130
Toluene	ND		0.992	0.928		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*

Lab Sample ID: 885-38107-2 MSD
Matrix: Solid
Analysis Batch: 38924

Client Sample ID: BH25-01 2'
Prep Type: Total/NA
Prep Batch: 38889

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.990	0.912		mg/Kg		92	70 - 130	0	20
Ethylbenzene	ND		0.990	0.915		mg/Kg		92	70 - 130	2	20
m-Xylene & p-Xylene	ND		1.98	1.83		mg/Kg		93	70 - 130	0	20
o-Xylene	ND		0.990	0.909		mg/Kg		92	70 - 130	3	20
Toluene	ND		0.990	0.928		mg/Kg		94	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*

Lab Sample ID: MB 885-38894/1-A
Matrix: Solid
Analysis Batch: 38933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38894

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		11/21/25 14:55	11/24/25 09:40	1
Ethylbenzene	ND		0.050		mg/Kg		11/21/25 14:55	11/24/25 09:40	1
Toluene	ND		0.050		mg/Kg		11/21/25 14:55	11/24/25 09:40	1
Xylenes, Total	ND		0.10		mg/Kg		11/21/25 14:55	11/24/25 09:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 150*	*11/21/25 14:55*	*11/24/25 09:40*	*1*

Lab Sample ID: LCS 885-38894/3-A
Matrix: Solid
Analysis Batch: 38933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38894

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			1.00	0.930		mg/Kg		93	70 - 130
Ethylbenzene			1.00	0.906		mg/Kg		91	70 - 130
m-Xylene & p-Xylene			2.00	1.83		mg/Kg		92	70 - 130
o-Xylene			1.00	0.887		mg/Kg		89	70 - 130
Toluene			1.00	0.931		mg/Kg		93	70 - 130

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

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

Lab Sample ID: LCS 885-38894/3-A
Matrix: Solid
Analysis Batch: 38933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38894

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		15 - 150

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

Lab Sample ID: MB 885-38899/1-A
Matrix: Solid
Analysis Batch: 38938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38899

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		11/21/25 15:45	11/24/25 12:05	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/21/25 15:45	11/24/25 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134	11/21/25 15:45	11/24/25 12:05	1

Lab Sample ID: LCS 885-38899/2-A
Matrix: Solid
Analysis Batch: 38938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.6		mg/Kg		93	51 - 148		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	100		62 - 134

Lab Sample ID: 885-38107-A-20-C MS
Matrix: Solid
Analysis Batch: 38938

Client Sample ID: 885-38107-A-20-C MS
Prep Type: Total/NA
Prep Batch: 38899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	9000	E	47.5	6390	E 4	mg/Kg		-5572	44 - 136		

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	210	S1+	62 - 134

Lab Sample ID: 885-38107-A-20-D MSD
Matrix: Solid
Analysis Batch: 38938

Client Sample ID: 885-38107-A-20-D MSD
Prep Type: Total/NA
Prep Batch: 38899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	9000	E	48.1	6320	E 4	mg/Kg		-5656	44 - 136	1	32

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Di-n-octyl phthalate (Surr)	226	S1+	62 - 134

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

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

Lab Sample ID: MB 885-38975/1-A
Matrix: Solid
Analysis Batch: 38942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38975

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		11/24/25 14:30	11/24/25 17:39	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		11/24/25 14:30	11/24/25 17:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*11/24/25 14:30*	*11/24/25 17:39*	*1*

Lab Sample ID: LCS 885-38975/2-A
Matrix: Solid
Analysis Batch: 38942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38975

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	52.5		mg/Kg		105	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-38917/1-A
Matrix: Solid
Analysis Batch: 38919

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38917

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		4.9		mg/Kg		11/21/25 17:48	11/22/25 10:01	1

Lab Sample ID: LCS 885-38917/2-A
Matrix: Solid
Analysis Batch: 38919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38917

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.2	48.7		mg/Kg		97	90 - 110		

Lab Sample ID: 885-38107-1 MSD
Matrix: Solid
Analysis Batch: 38919

Client Sample ID: BH25-01 0'
Prep Type: Total/NA
Prep Batch: 38917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND	F1	50.3	73.0		mg/Kg		145	50 - 150	4	20

Lab Sample ID: 885-38107-2 MS
Matrix: Solid
Analysis Batch: 38919

Client Sample ID: BH25-01 2'
Prep Type: Total/NA
Prep Batch: 38917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		50.2	59.2		mg/Kg		118	50 - 150		

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-38107-2 MSD
Matrix: Solid
Analysis Batch: 38919

Client Sample ID: BH25-01 2'
Prep Type: Total/NA
Prep Batch: 38917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	58.2		mg/Kg		116	50 - 150	2	20

Lab Sample ID: MB 885-38918/1-A
Matrix: Solid
Analysis Batch: 38920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38918

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		11/21/25 18:10	11/22/25 10:26	1

Lab Sample ID: LCS 885-38918/2-A
Matrix: Solid
Analysis Batch: 38920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38918

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			49.8	48.9		mg/Kg		98	90 - 110		

Lab Sample ID: 885-38107-21 MS
Matrix: Solid
Analysis Batch: 38920

Client Sample ID: BH25-10 1'
Prep Type: Total/NA
Prep Batch: 38918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		50.2	58.8		mg/Kg		117	50 - 150		

Lab Sample ID: 885-38107-21 MSD
Matrix: Solid
Analysis Batch: 38920

Client Sample ID: BH25-10 1'
Prep Type: Total/NA
Prep Batch: 38918

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.2	58.1		mg/Kg		116	50 - 150	1	20

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

GC VOA

Prep Batch: 38889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	5030C	
885-38107-2	BH25-01 2'	Total/NA	Solid	5030C	
885-38107-3	BH25-02 0'	Total/NA	Solid	5030C	
885-38107-4	BH25-02 2'	Total/NA	Solid	5030C	
885-38107-5	BH25-03 0'	Total/NA	Solid	5030C	
885-38107-6	BH25-03 2'	Total/NA	Solid	5030C	
885-38107-7	BH25-04 0'	Total/NA	Solid	5030C	
885-38107-8	BH25-04 2'	Total/NA	Solid	5030C	
885-38107-9	BH25-05 0'	Total/NA	Solid	5030C	
885-38107-10	BH25-05 2'	Total/NA	Solid	5030C	
885-38107-11	BH25-06 0'	Total/NA	Solid	5030C	
885-38107-12	BH25-06 2'	Total/NA	Solid	5030C	
885-38107-13	BH25-07 0'	Total/NA	Solid	5030C	
885-38107-14	BH25-07 2'	Total/NA	Solid	5030C	
885-38107-15	BH25-8 1'	Total/NA	Solid	5030C	
885-38107-16	BH25-8 2'	Total/NA	Solid	5030C	
885-38107-17	BH25-9 0'	Total/NA	Solid	5030C	
885-38107-18	BH25-9 1'	Total/NA	Solid	5030C	
885-38107-19	BH25-9 3'	Total/NA	Solid	5030C	
885-38107-20	BH25-10 0.5'	Total/NA	Solid	5030C	
MB 885-38889/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-38889/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-38889/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-38107-1 MS	BH25-01 0'	Total/NA	Solid	5030C	
885-38107-1 MSD	BH25-01 0'	Total/NA	Solid	5030C	
885-38107-2 MS	BH25-01 2'	Total/NA	Solid	5030C	
885-38107-2 MSD	BH25-01 2'	Total/NA	Solid	5030C	

Prep Batch: 38894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	5030C	
MB 885-38894/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-38894/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-38894/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 38923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	8015M/D	38889
885-38107-2	BH25-01 2'	Total/NA	Solid	8015M/D	38889
885-38107-3	BH25-02 0'	Total/NA	Solid	8015M/D	38889
885-38107-4	BH25-02 2'	Total/NA	Solid	8015M/D	38889
885-38107-5	BH25-03 0'	Total/NA	Solid	8015M/D	38889
885-38107-6	BH25-03 2'	Total/NA	Solid	8015M/D	38889
885-38107-7	BH25-04 0'	Total/NA	Solid	8015M/D	38889
885-38107-8	BH25-04 2'	Total/NA	Solid	8015M/D	38889
885-38107-9	BH25-05 0'	Total/NA	Solid	8015M/D	38889
885-38107-10	BH25-05 2'	Total/NA	Solid	8015M/D	38889
885-38107-11	BH25-06 0'	Total/NA	Solid	8015M/D	38889
885-38107-12	BH25-06 2'	Total/NA	Solid	8015M/D	38889
885-38107-13	BH25-07 0'	Total/NA	Solid	8015M/D	38889
885-38107-14	BH25-07 2'	Total/NA	Solid	8015M/D	38889

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

GC VOA (Continued)

Analysis Batch: 38923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-15	BH25-8 1'	Total/NA	Solid	8015M/D	38889
885-38107-16	BH25-8 2'	Total/NA	Solid	8015M/D	38889
885-38107-17	BH25-9 0'	Total/NA	Solid	8015M/D	38889
885-38107-18	BH25-9 1'	Total/NA	Solid	8015M/D	38889
885-38107-19	BH25-9 3'	Total/NA	Solid	8015M/D	38889
885-38107-20	BH25-10 0.5'	Total/NA	Solid	8015M/D	38889
MB 885-38889/1-A	Method Blank	Total/NA	Solid	8015M/D	38889
LCS 885-38889/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38889
885-38107-1 MS	BH25-01 0'	Total/NA	Solid	8015M/D	38889
885-38107-1 MSD	BH25-01 0'	Total/NA	Solid	8015M/D	38889

Analysis Batch: 38924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	8021B	38889
885-38107-2	BH25-01 2'	Total/NA	Solid	8021B	38889
885-38107-3	BH25-02 0'	Total/NA	Solid	8021B	38889
885-38107-4	BH25-02 2'	Total/NA	Solid	8021B	38889
885-38107-5	BH25-03 0'	Total/NA	Solid	8021B	38889
885-38107-6	BH25-03 2'	Total/NA	Solid	8021B	38889
885-38107-7	BH25-04 0'	Total/NA	Solid	8021B	38889
885-38107-8	BH25-04 2'	Total/NA	Solid	8021B	38889
885-38107-9	BH25-05 0'	Total/NA	Solid	8021B	38889
885-38107-10	BH25-05 2'	Total/NA	Solid	8021B	38889
885-38107-11	BH25-06 0'	Total/NA	Solid	8021B	38889
885-38107-12	BH25-06 2'	Total/NA	Solid	8021B	38889
885-38107-13	BH25-07 0'	Total/NA	Solid	8021B	38889
885-38107-14	BH25-07 2'	Total/NA	Solid	8021B	38889
885-38107-15	BH25-8 1'	Total/NA	Solid	8021B	38889
885-38107-16	BH25-8 2'	Total/NA	Solid	8021B	38889
885-38107-17	BH25-9 0'	Total/NA	Solid	8021B	38889
885-38107-18	BH25-9 1'	Total/NA	Solid	8021B	38889
885-38107-19	BH25-9 3'	Total/NA	Solid	8021B	38889
885-38107-20	BH25-10 0.5'	Total/NA	Solid	8021B	38889
MB 885-38889/1-A	Method Blank	Total/NA	Solid	8021B	38889
LCS 885-38889/3-A	Lab Control Sample	Total/NA	Solid	8021B	38889
885-38107-2 MS	BH25-01 2'	Total/NA	Solid	8021B	38889
885-38107-2 MSD	BH25-01 2'	Total/NA	Solid	8021B	38889

Analysis Batch: 38932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	8015M/D	38894
MB 885-38894/1-A	Method Blank	Total/NA	Solid	8015M/D	38894
LCS 885-38894/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38894

Analysis Batch: 38933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	8021B	38894
MB 885-38894/1-A	Method Blank	Total/NA	Solid	8021B	38894
LCS 885-38894/3-A	Lab Control Sample	Total/NA	Solid	8021B	38894

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

GC Semi VOA

Prep Batch: 38899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	SHAKE	
885-38107-2	BH25-01 2'	Total/NA	Solid	SHAKE	
885-38107-3	BH25-02 0'	Total/NA	Solid	SHAKE	
885-38107-4	BH25-02 2'	Total/NA	Solid	SHAKE	
885-38107-5	BH25-03 0'	Total/NA	Solid	SHAKE	
885-38107-6	BH25-03 2'	Total/NA	Solid	SHAKE	
885-38107-7	BH25-04 0'	Total/NA	Solid	SHAKE	
885-38107-8	BH25-04 2'	Total/NA	Solid	SHAKE	
885-38107-9	BH25-05 0'	Total/NA	Solid	SHAKE	
885-38107-10	BH25-05 2'	Total/NA	Solid	SHAKE	
885-38107-11	BH25-06 0'	Total/NA	Solid	SHAKE	
885-38107-12	BH25-06 2'	Total/NA	Solid	SHAKE	
885-38107-13	BH25-07 0'	Total/NA	Solid	SHAKE	
885-38107-14	BH25-07 2'	Total/NA	Solid	SHAKE	
885-38107-15	BH25-8 1'	Total/NA	Solid	SHAKE	
885-38107-16	BH25-8 2'	Total/NA	Solid	SHAKE	
885-38107-17	BH25-9 0'	Total/NA	Solid	SHAKE	
885-38107-18	BH25-9 1'	Total/NA	Solid	SHAKE	
885-38107-19	BH25-9 3'	Total/NA	Solid	SHAKE	
885-38107-20	BH25-10 0.5'	Total/NA	Solid	SHAKE	
MB 885-38899/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-38899/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-38107-A-20-C MS	885-38107-A-20-C MS	Total/NA	Solid	SHAKE	
885-38107-A-20-D MSD	885-38107-A-20-D MSD	Total/NA	Solid	SHAKE	

Analysis Batch: 38938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	8015M/D	38899
885-38107-2	BH25-01 2'	Total/NA	Solid	8015M/D	38899
885-38107-3	BH25-02 0'	Total/NA	Solid	8015M/D	38899
885-38107-4	BH25-02 2'	Total/NA	Solid	8015M/D	38899
885-38107-5	BH25-03 0'	Total/NA	Solid	8015M/D	38899
885-38107-6	BH25-03 2'	Total/NA	Solid	8015M/D	38899
885-38107-7	BH25-04 0'	Total/NA	Solid	8015M/D	38899
885-38107-8	BH25-04 2'	Total/NA	Solid	8015M/D	38899
885-38107-9	BH25-05 0'	Total/NA	Solid	8015M/D	38899
885-38107-10	BH25-05 2'	Total/NA	Solid	8015M/D	38899
885-38107-11	BH25-06 0'	Total/NA	Solid	8015M/D	38899
885-38107-12	BH25-06 2'	Total/NA	Solid	8015M/D	38899
885-38107-13	BH25-07 0'	Total/NA	Solid	8015M/D	38899
885-38107-14	BH25-07 2'	Total/NA	Solid	8015M/D	38899
885-38107-19	BH25-9 3'	Total/NA	Solid	8015M/D	38899
MB 885-38899/1-A	Method Blank	Total/NA	Solid	8015M/D	38899
LCS 885-38899/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38899
885-38107-A-20-C MS	885-38107-A-20-C MS	Total/NA	Solid	8015M/D	38899
885-38107-A-20-D MSD	885-38107-A-20-D MSD	Total/NA	Solid	8015M/D	38899

Analysis Batch: 38942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	8015M/D	38975
MB 885-38975/1-A	Method Blank	Total/NA	Solid	8015M/D	38975

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

GC Semi VOA (Continued)

Analysis Batch: 38942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-38975/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	38975

Prep Batch: 38975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	SHAKE	
MB 885-38975/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-38975/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 39076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-15	BH25-8 1'	Total/NA	Solid	8015M/D	38899
885-38107-16	BH25-8 2'	Total/NA	Solid	8015M/D	38899
885-38107-17	BH25-9 0'	Total/NA	Solid	8015M/D	38899
885-38107-18	BH25-9 1'	Total/NA	Solid	8015M/D	38899
885-38107-20	BH25-10 0.5'	Total/NA	Solid	8015M/D	38899

HPLC/IC

Prep Batch: 38917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	300_Prep	
885-38107-2	BH25-01 2'	Total/NA	Solid	300_Prep	
885-38107-3	BH25-02 0'	Total/NA	Solid	300_Prep	
885-38107-4	BH25-02 2'	Total/NA	Solid	300_Prep	
885-38107-5	BH25-03 0'	Total/NA	Solid	300_Prep	
885-38107-6	BH25-03 2'	Total/NA	Solid	300_Prep	
885-38107-7	BH25-04 0'	Total/NA	Solid	300_Prep	
885-38107-8	BH25-04 2'	Total/NA	Solid	300_Prep	
885-38107-9	BH25-05 0'	Total/NA	Solid	300_Prep	
885-38107-10	BH25-05 2'	Total/NA	Solid	300_Prep	
885-38107-11	BH25-06 0'	Total/NA	Solid	300_Prep	
885-38107-12	BH25-06 2'	Total/NA	Solid	300_Prep	
885-38107-13	BH25-07 0'	Total/NA	Solid	300_Prep	
885-38107-14	BH25-07 2'	Total/NA	Solid	300_Prep	
885-38107-15	BH25-8 1'	Total/NA	Solid	300_Prep	
885-38107-16	BH25-8 2'	Total/NA	Solid	300_Prep	
885-38107-17	BH25-9 0'	Total/NA	Solid	300_Prep	
885-38107-18	BH25-9 1'	Total/NA	Solid	300_Prep	
885-38107-19	BH25-9 3'	Total/NA	Solid	300_Prep	
885-38107-20	BH25-10 0.5'	Total/NA	Solid	300_Prep	
MB 885-38917/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-38917/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-38107-1 MSD	BH25-01 0'	Total/NA	Solid	300_Prep	
885-38107-2 MS	BH25-01 2'	Total/NA	Solid	300_Prep	
885-38107-2 MSD	BH25-01 2'	Total/NA	Solid	300_Prep	

Prep Batch: 38918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	300_Prep	
MB 885-38918/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-38918/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

HPLC/IC (Continued)

Prep Batch: 38918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21 MS	BH25-10 1'	Total/NA	Solid	300_Prep	
885-38107-21 MSD	BH25-10 1'	Total/NA	Solid	300_Prep	

Analysis Batch: 38919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-1	BH25-01 0'	Total/NA	Solid	300.0	38917
885-38107-2	BH25-01 2'	Total/NA	Solid	300.0	38917
885-38107-3	BH25-02 0'	Total/NA	Solid	300.0	38917
885-38107-4	BH25-02 2'	Total/NA	Solid	300.0	38917
885-38107-5	BH25-03 0'	Total/NA	Solid	300.0	38917
885-38107-6	BH25-03 2'	Total/NA	Solid	300.0	38917
885-38107-7	BH25-04 0'	Total/NA	Solid	300.0	38917
885-38107-8	BH25-04 2'	Total/NA	Solid	300.0	38917
885-38107-9	BH25-05 0'	Total/NA	Solid	300.0	38917
885-38107-10	BH25-05 2'	Total/NA	Solid	300.0	38917
885-38107-11	BH25-06 0'	Total/NA	Solid	300.0	38917
885-38107-12	BH25-06 2'	Total/NA	Solid	300.0	38917
885-38107-13	BH25-07 0'	Total/NA	Solid	300.0	38917
885-38107-14	BH25-07 2'	Total/NA	Solid	300.0	38917
885-38107-15	BH25-8 1'	Total/NA	Solid	300.0	38917
885-38107-16	BH25-8 2'	Total/NA	Solid	300.0	38917
885-38107-17	BH25-9 0'	Total/NA	Solid	300.0	38917
885-38107-18	BH25-9 1'	Total/NA	Solid	300.0	38917
885-38107-19	BH25-9 3'	Total/NA	Solid	300.0	38917
885-38107-20	BH25-10 0.5'	Total/NA	Solid	300.0	38917
MB 885-38917/1-A	Method Blank	Total/NA	Solid	300.0	38917
LCS 885-38917/2-A	Lab Control Sample	Total/NA	Solid	300.0	38917
885-38107-1 MSD	BH25-01 0'	Total/NA	Solid	300.0	38917
885-38107-2 MS	BH25-01 2'	Total/NA	Solid	300.0	38917
885-38107-2 MSD	BH25-01 2'	Total/NA	Solid	300.0	38917

Analysis Batch: 38920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38107-21	BH25-10 1'	Total/NA	Solid	300.0	38918
MB 885-38918/1-A	Method Blank	Total/NA	Solid	300.0	38918
LCS 885-38918/2-A	Lab Control Sample	Total/NA	Solid	300.0	38918
885-38107-21 MS	BH25-10 1'	Total/NA	Solid	300.0	38918
885-38107-21 MSD	BH25-10 1'	Total/NA	Solid	300.0	38918

Lab Chronicle

Client: Vertex
Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Client Sample ID: BH25-01 0'
Lab Sample ID: 885-38107-1
Date Collected: 11/17/25 11:10
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 02:28
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 02:28
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 12:28
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 10:36

Client Sample ID: BH25-01 2'
Lab Sample ID: 885-38107-2
Date Collected: 11/17/25 11:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 03:39
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 03:39
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 12:40
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 11:18

Client Sample ID: BH25-02 0'
Lab Sample ID: 885-38107-3
Date Collected: 11/17/25 12:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 04:50
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 04:50
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 12:52
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 12:01

Client Sample ID: BH25-02 2'
Lab Sample ID: 885-38107-4
Date Collected: 11/17/25 12:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 05:14

Lab Chronicle

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-02 2'
Date Collected: 11/17/25 12:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 05:14
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 13:03
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 12:15

Client Sample ID: BH25-03 0'
Date Collected: 11/17/25 13:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 05:38
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 05:38
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 13:15
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 12:57

Client Sample ID: BH25-03 2'
Date Collected: 11/17/25 13:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 06:01
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 06:01
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 13:27
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 13:12

Client Sample ID: BH25-04 0'
Date Collected: 11/17/25 14:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 06:25
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 06:25

Lab Chronicle

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38107-1

Client Sample ID: BH25-04 0'
Date Collected: 11/17/25 14:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 13:38
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 13:26

Client Sample ID: BH25-04 2'
Date Collected: 11/17/25 14:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 06:48
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 06:48
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 13:50
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 13:40

Client Sample ID: BH25-05 0'
Date Collected: 11/19/25 15:00
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 07:12
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 07:12
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 14:13
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 13:54

Client Sample ID: BH25-05 2'
Date Collected: 11/19/25 15:30
Date Received: 11/21/25 08:00

Lab Sample ID: 885-38107-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 07:36
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 07:36
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 14:25

Lab Chronicle

Client: Vertex
Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Client Sample ID: BH25-05 2'
Lab Sample ID: 885-38107-10
Date Collected: 11/19/25 15:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 14:08

Client Sample ID: BH25-06 0'
Lab Sample ID: 885-38107-11
Date Collected: 11/18/25 11:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 08:23
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 08:23
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 14:37
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 14:22

Client Sample ID: BH25-06 2'
Lab Sample ID: 885-38107-12
Date Collected: 11/18/25 11:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 08:46
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 08:46
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 14:48
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 14:36

Client Sample ID: BH25-07 0'
Lab Sample ID: 885-38107-13
Date Collected: 11/18/25 12:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 09:10
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 09:10
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 15:00
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 14:51

Lab Chronicle

Client: Vertex
Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Client Sample ID: BH25-07 2'
Lab Sample ID: 885-38107-14
Date Collected: 11/18/25 12:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 09:34
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 09:34
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 16:34
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 15:05

Client Sample ID: BH25-8 1'
Lab Sample ID: 885-38107-15
Date Collected: 11/18/25 13:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 09:57
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 09:57
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		10	39076	BV	EET ALB	11/26/25 12:12
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 15:47

Client Sample ID: BH25-8 2'
Lab Sample ID: 885-38107-16
Date Collected: 11/18/25 13:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 10:21
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 10:21
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	39076	BV	EET ALB	11/26/25 12:36
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 16:01

Client Sample ID: BH25-9 0'
Lab Sample ID: 885-38107-17
Date Collected: 11/18/25 14:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 10:44

Lab Chronicle

Client: Vertex
Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Client Sample ID: BH25-9 0'
Lab Sample ID: 885-38107-17
Date Collected: 11/18/25 14:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 10:44
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		10	39076	BV	EET ALB	11/26/25 12:59
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 16:15

Client Sample ID: BH25-9 1'
Lab Sample ID: 885-38107-18
Date Collected: 11/18/25 15:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 11:08
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 11:08
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	39076	BV	EET ALB	11/26/25 13:22
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 16:30

Client Sample ID: BH25-9 3'
Lab Sample ID: 885-38107-19
Date Collected: 11/18/25 15:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		1	38923	VP	EET ALB	11/23/25 11:32
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		1	38924	VP	EET ALB	11/23/25 11:32
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		1	38938	EM	EET ALB	11/24/25 17:44
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 16:44

Client Sample ID: BH25-10 0.5'
Lab Sample ID: 885-38107-20
Date Collected: 11/19/25 14:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8015M/D		5	38923	VP	EET ALB	11/23/25 11:56
Total/NA	Prep	5030C			38889	VP	EET ALB	11/21/25 13:28
Total/NA	Analysis	8021B		5	38924	VP	EET ALB	11/23/25 11:56

Lab Chronicle

Client: Vertex
Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

Client Sample ID: BH25-10 0.5'
Lab Sample ID: 885-38107-20
Date Collected: 11/19/25 14:00
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			38899	BV	EET ALB	11/21/25 15:45
Total/NA	Analysis	8015M/D		20	39076	BV	EET ALB	11/26/25 13:45
Total/NA	Prep	300_Prep			38917	JT	EET ALB	11/21/25 17:48
Total/NA	Analysis	300.0		10	38919	JT	EET ALB	11/22/25 16:58

Client Sample ID: BH25-10 1'
Lab Sample ID: 885-38107-21
Date Collected: 11/19/25 14:30
Matrix: Solid
Date Received: 11/21/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			38894	VP	EET ALB	11/21/25 14:55
Total/NA	Analysis	8015M/D		1	38932	VP	EET ALB	11/24/25 13:37
Total/NA	Prep	5030C			38894	VP	EET ALB	11/21/25 14:55
Total/NA	Analysis	8021B		1	38933	VP	EET ALB	11/24/25 13:37
Total/NA	Prep	SHAKE			38975	BV	EET ALB	11/24/25 14:30
Total/NA	Analysis	8015M/D		1	38942	BV	EET ALB	11/24/25 19:15
Total/NA	Prep	300_Prep			38918	JT	EET ALB	11/21/25 18:10
Total/NA	Analysis	300.0		10	38920	JT	EET ALB	11/22/25 10:50

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-38107-1
Project/Site: Fighting Okra 18 CTB 4

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)

Mailing Address: 3101 BOYD DR
CARLSBAD, NM 88220

Phone #: ON FILE

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 DAYS

Project Name: FIGHTING OKRA 18 CTB 4

Project #: 25A-05936

Project Manager: SALLY CARTTAR
SCARTTAR@VERTEX.CA
KENT STALLINGS, KSTALLINGS@VERTEX.CA

Sampler: KATRINA TAYLOR

On Ice: ☒ Yes ☐ No Joe

# of Coolers: 1

Cooler Temp(including CF): 2.6 +0.2 =2.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-38107 COC

Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.	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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/17	11:00	Soil	BH25-01	0	4oz, 1	ICE		X	X					X			
	11:30		BH25-01	2													
	12:00		BH25-02	0													
	12:30		BH25-02	2													
	13:00		BH25-03	0													
	13:30		BH25-03	2													
	14:00		BH25-04	0													
	14:30		BH25-04	2													
11/19	15:00		BH25-05	0													
11/19	15:30		BH25-05	2													
11/18	11:00		BH25-06	0													
	11:30		BH25-06	2													

Date	Time	Relinquished by	Received by	Via	Date	Time
					11/20/25	845
11/20/25	1100				11/21/25	8:00

Remarks: WO: 21734040
ATTN: JIM RALEY (JIM.RALEY@DVN.COM)
CC: KSTALLINGS@VERTEX.CA, SCARTTAR@VERTEX.CA
KATRINA.TAYLOR@VERTEX.CA

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

Chain-of-Custody Record

Client: VERTEX (BILL TO DVN DEVON)

Mailing Address: 3101 Boyd dr, CARLSBAD NM, 88220

Phone #: ON FILE

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 Day

Project Name: FIGHTING OKRA 18 CTB 4

Project #: 25A-05936

Project Manager: SALLY CARTTAR
SCARTTAR@VERTEX.CA
KENT STALLINGS KSTALLINGS@VERTEX.CA

Sampler: KATRINA TAYLOR

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.1+0.2=2.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
11/18	12:00	Soil	BH25-07 0'	4oz, 1	ICE		X	X					X			
	12:30		BH25-07 2'													
	13:00		BH25-08 1'													
	13:30		BH25-08 2'													
	~~14:00~~		~~BH25-08 5'~~													
	14:30		BH25-09 0'													
	15:00		BH25-09 1'													
	15:30		BH25-09 3'													
11/19	~~14:00~~ 14:00		BH25-10 0.5'													
	~~14:30~~ 14:30		BH25-10 1'													

Date	Time	Relinquished by	Received by	Via	Date	Time
					11/20/25	845
11/20/25	1900				11/21/25	8:00

Remarks: WO: 217340440
ATTN: JIM RALEY (JIM.RALEY@DVN.COM)
CC: SCARTTAR@VERTEX.CA, KSTALLINGS@VERTEX.CA
KATRINA.TAYLOR@VERTEX.CA

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

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-38107-1

Login Number: 38107 **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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/15/2025 8:12:39 AM Revision 1

JOB DESCRIPTION

Fighting Okra 18 CTB 4

JOB NUMBER

885-38855-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
12/15/2025 8:12:39 AM
Revision 1

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
Designee for
Andy Freeman, Business Unit Manager
andy.freeman@et.eurofinsus.com
(505)345-3975

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Laboratory Job ID: 885-38855-1

Table of Contents

Definitions/Glossary

Client: Vertex Job ID: 885-38855-1
Project/Site: Fighting Okra 18 CTB 4

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 Job ID: 885-38855-1
Project: Fighting Okra 18 CTB 4

Job ID: 885-38855-1 Eurofins Albuquerque

Job Narrative
885-38855-1

REVISION

The report being provided is a revision of the original report sent on 12/10/2025. The report (revision 1) is being revised due to
BH25-06 at 0ft ? BH25-11 0'
BH25-06 at 2ft ? BH25-11 2'
BH25-07 at 0ft ? BH25-12 0'
BH25-07 at 2ft ? BH25-12 2'.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 12/4/2025 8:40 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 4.5°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 885-39441 and analytical batch 885-39438 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.

Method 8015D_DRO: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 885-39441 and analytical batch 885-39438 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

Client Sample ID: BH25-11 at 0ft

Date Collected: 12/02/25 13:12
Date Received: 12/04/25 08:40

Lab Sample ID: 885-38855-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		12/05/25 08:27	12/08/25 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*15 - 150*	*12/05/25 08:27*	*12/08/25 15:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/05/25 08:27	12/08/25 15:30	1
Ethylbenzene	ND		0.049		mg/Kg		12/05/25 08:27	12/08/25 15:30	1
Toluene	ND		0.049		mg/Kg		12/05/25 08:27	12/08/25 15:30	1
Xylenes, Total	ND		0.098		mg/Kg		12/05/25 08:27	12/08/25 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 150*	*12/05/25 08:27*	*12/08/25 15:30*	*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]	**20**		9.5		mg/Kg		12/05/25 10:16	12/05/25 19:25	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		12/05/25 10:16	12/05/25 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*12/05/25 10:16*	*12/05/25 19:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		49		mg/Kg		12/05/25 11:06	12/07/25 15:15	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

Client Sample ID: BH25-11 at 2ft

Date Collected: 12/02/25 13:20
Date Received: 12/04/25 08:40

Lab Sample ID: 885-38855-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		12/05/25 08:27	12/08/25 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*15 - 150*	*12/05/25 08:27*	*12/08/25 16:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/05/25 08:27	12/08/25 16:17	1
Ethylbenzene	ND		0.050		mg/Kg		12/05/25 08:27	12/08/25 16:17	1
Toluene	ND		0.050		mg/Kg		12/05/25 08:27	12/08/25 16:17	1
Xylenes, Total	ND		0.10		mg/Kg		12/05/25 08:27	12/08/25 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*15 - 150*	*12/05/25 08:27*	*12/08/25 16:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		12/05/25 10:16	12/05/25 19:48	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/05/25 10:16	12/05/25 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*76*		*62 - 134*	*12/05/25 10:16*	*12/05/25 19:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86**		50		mg/Kg		12/05/25 11:06	12/07/25 15:26	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

Client Sample ID: BH25-12 at 0ft

Date Collected: 12/02/25 10:51
Date Received: 12/04/25 08:40

Lab Sample ID: 885-38855-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		12/05/25 08:27	12/08/25 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*15 - 150*	*12/05/25 08:27*	*12/08/25 16:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/05/25 08:27	12/08/25 16:40	1
Ethylbenzene	ND		0.049		mg/Kg		12/05/25 08:27	12/08/25 16:40	1
Toluene	ND		0.049		mg/Kg		12/05/25 08:27	12/08/25 16:40	1
Xylenes, Total	ND		0.099		mg/Kg		12/05/25 08:27	12/08/25 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 150*	*12/05/25 08:27*	*12/08/25 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		12/05/25 10:16	12/05/25 19:59	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		12/05/25 10:16	12/05/25 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*12/05/25 10:16*	*12/05/25 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92**		51		mg/Kg		12/05/25 11:06	12/07/25 15:36	10

Client Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

Client Sample ID: BH25-12 at 2ft

Date Collected: 12/02/25 11:01
Date Received: 12/04/25 08:40

Lab Sample ID: 885-38855-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		12/05/25 08:27	12/08/25 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*15 - 150*	*12/05/25 08:27*	*12/08/25 17:04*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		12/05/25 08:27	12/08/25 17:04	1
Ethylbenzene	ND		0.049		mg/Kg		12/05/25 08:27	12/08/25 17:04	1
Toluene	ND		0.049		mg/Kg		12/05/25 08:27	12/08/25 17:04	1
Xylenes, Total	ND		0.097		mg/Kg		12/05/25 08:27	12/08/25 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 150*	*12/05/25 08:27*	*12/08/25 17:04*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		12/05/25 10:16	12/05/25 20:10	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		12/05/25 10:16	12/05/25 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*12/05/25 10:16*	*12/05/25 20:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50		mg/Kg		12/05/25 11:06	12/07/25 15:47	10

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

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

Lab Sample ID: MB 885-39435/1-A
Matrix: Solid
Analysis Batch: 39507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39435

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		12/05/25 08:26	12/08/25 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*15 - 150*	*12/05/25 08:26*	*12/08/25 09:59*	*1*

Lab Sample ID: LCS 885-39435/2-A
Matrix: Solid
Analysis Batch: 39507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.6		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*		*15 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-39435/1-A
Matrix: Solid
Analysis Batch: 39508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39435

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		12/05/25 08:26	12/08/25 09:59	1
Ethylbenzene	ND		0.050		mg/Kg		12/05/25 08:26	12/08/25 09:59	1
Toluene	ND		0.050		mg/Kg		12/05/25 08:26	12/08/25 09:59	1
Xylenes, Total	ND		0.10		mg/Kg		12/05/25 08:26	12/08/25 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 150*	*12/05/25 08:26*	*12/08/25 09:59*	*1*

Lab Sample ID: LCS 885-39435/3-A
Matrix: Solid
Analysis Batch: 39508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.887		mg/Kg		89	70 - 130		
Ethylbenzene			1.00	0.864		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			2.00	1.73		mg/Kg		86	70 - 130		
o-Xylene			1.00	0.847		mg/Kg		85	70 - 130		
Toluene			1.00	0.888		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*15 - 150*

QC Sample Results

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

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

Lab Sample ID: MB 885-39441/1-A
Matrix: Solid
Analysis Batch: 39438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39441

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		12/05/25 10:16	12/05/25 17:21	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		12/05/25 10:16	12/05/25 17:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*79*		*62 - 134*	*12/05/25 10:16*	*12/05/25 17:21*	*1*

Lab Sample ID: LCS 885-39441/2-A
Matrix: Solid
Analysis Batch: 39438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39441

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.2		mg/Kg		84	51 - 148		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-39454/1-A
Matrix: Solid
Analysis Batch: 39504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39454

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg		12/05/25 11:06	12/07/25 12:10	1

Lab Sample ID: LCS 885-39454/2-A
Matrix: Solid
Analysis Batch: 39504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	48.9		mg/Kg		98	90 - 110		

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

GC VOA

Prep Batch: 39435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	5030C	
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	5030C	
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	5030C	
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	5030C	
MB 885-39435/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-39435/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-39435/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 39507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	8015M/D	39435
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	8015M/D	39435
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	8015M/D	39435
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	8015M/D	39435
MB 885-39435/1-A	Method Blank	Total/NA	Solid	8015M/D	39435
LCS 885-39435/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	39435

Analysis Batch: 39508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	8021B	39435
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	8021B	39435
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	8021B	39435
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	8021B	39435
MB 885-39435/1-A	Method Blank	Total/NA	Solid	8021B	39435
LCS 885-39435/3-A	Lab Control Sample	Total/NA	Solid	8021B	39435

GC Semi VOA

Analysis Batch: 39438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	8015M/D	39441
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	8015M/D	39441
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	8015M/D	39441
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	8015M/D	39441
MB 885-39441/1-A	Method Blank	Total/NA	Solid	8015M/D	39441
LCS 885-39441/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	39441

Prep Batch: 39441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	SHAKE	
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	SHAKE	
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	SHAKE	
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	SHAKE	
MB 885-39441/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-39441/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Prep Batch: 39454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	300_Prep	
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

HPLC/IC (Continued)

Prep Batch: 39454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	300_Prep	
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	300_Prep	
MB 885-39454/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-39454/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 39504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-38855-1	BH25-11 at 0ft	Total/NA	Solid	300.0	39454
885-38855-2	BH25-11 at 2ft	Total/NA	Solid	300.0	39454
885-38855-3	BH25-12 at 0ft	Total/NA	Solid	300.0	39454
885-38855-4	BH25-12 at 2ft	Total/NA	Solid	300.0	39454
MB 885-39454/1-A	Method Blank	Total/NA	Solid	300.0	39454
LCS 885-39454/2-A	Lab Control Sample	Total/NA	Solid	300.0	39454

Lab Chronicle

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

Client Sample ID: BH25-11 at 0ft
Lab Sample ID: 885-38855-1
Date Collected: 12/02/25 13:12
Matrix: Solid
Date Received: 12/04/25 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8015M/D		1	39507	VP	EET ALB	12/08/25 15:30
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8021B		1	39508	VP	EET ALB	12/08/25 15:30
Total/NA	Prep	SHAKE			39441	DH	EET ALB	12/05/25 10:16
Total/NA	Analysis	8015M/D		1	39438	BV	EET ALB	12/05/25 19:25
Total/NA	Prep	300_Prep			39454	MA	EET ALB	12/05/25 11:06
Total/NA	Analysis	300.0		10	39504	JT	EET ALB	12/07/25 15:15

Client Sample ID: BH25-11 at 2ft
Lab Sample ID: 885-38855-2
Date Collected: 12/02/25 13:20
Matrix: Solid
Date Received: 12/04/25 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8015M/D		1	39507	VP	EET ALB	12/08/25 16:17
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8021B		1	39508	VP	EET ALB	12/08/25 16:17
Total/NA	Prep	SHAKE			39441	DH	EET ALB	12/05/25 10:16
Total/NA	Analysis	8015M/D		1	39438	BV	EET ALB	12/05/25 19:48
Total/NA	Prep	300_Prep			39454	MA	EET ALB	12/05/25 11:06
Total/NA	Analysis	300.0		10	39504	JT	EET ALB	12/07/25 15:26

Client Sample ID: BH25-12 at 0ft
Lab Sample ID: 885-38855-3
Date Collected: 12/02/25 10:51
Matrix: Solid
Date Received: 12/04/25 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8015M/D		1	39507	VP	EET ALB	12/08/25 16:40
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8021B		1	39508	VP	EET ALB	12/08/25 16:40
Total/NA	Prep	SHAKE			39441	DH	EET ALB	12/05/25 10:16
Total/NA	Analysis	8015M/D		1	39438	BV	EET ALB	12/05/25 19:59
Total/NA	Prep	300_Prep			39454	MA	EET ALB	12/05/25 11:06
Total/NA	Analysis	300.0		10	39504	JT	EET ALB	12/07/25 15:36

Client Sample ID: BH25-12 at 2ft
Lab Sample ID: 885-38855-4
Date Collected: 12/02/25 11:01
Matrix: Solid
Date Received: 12/04/25 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8015M/D		1	39507	VP	EET ALB	12/08/25 17:04

Lab Chronicle

Client: Vertex
Project/Site: Fighting Okra 18 CTB 4

Job ID: 885-38855-1

Client Sample ID: BH25-12 at 2ft

Date Collected: 12/02/25 11:01
Date Received: 12/04/25 08:40

Lab Sample ID: 885-38855-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			39435	VP	EET ALB	12/05/25 08:27
Total/NA	Analysis	8021B		1	39508	VP	EET ALB	12/08/25 17:04
Total/NA	Prep	SHAKE			39441	DH	EET ALB	12/05/25 10:16
Total/NA	Analysis	8015M/D		1	39438	BV	EET ALB	12/05/25 20:10
Total/NA	Prep	300_Prep			39454	MA	EET ALB	12/05/25 11:06
Total/NA	Analysis	300.0		10	39504	JT	EET ALB	12/07/25 15:47

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-38855-1
Project/Site: Fighting Okra 18 CTB 4

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	02-25-26

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	02-25-26

Chain-of-Custody Record

Client: Vertex (bill to Devon Energy, Jim Raley)

Mailing Address: 3101 Boyd Dr
Carlsbad, New Mexico 88220

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:
X Standard X Rush 5 Days

Project Name:
Fighting Okra 18 CTB 4

Project #:
25A-05936 (Work Order 21734040)

Project Manager:
Sally Carttar
SCarttar@vertexresource.com

Sampler: Sharon Minnix
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 4.3+0.2=4.5

HALL ENVIRONMENTAL ANALYSIS LABO
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-38855 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
12.02.25	13:12	Soil	BH25-06 at 0ft	1, 4oz jar	ICE		X	X					X							
12.02.25	13:20	Soil	BH25-06 at 2ft	1, 4oz jar	ICE		X	X					X							
12.02.25	10:51	Soil	BH25-07 at 0ft	1, 4oz jar	ICE		X	X					X							
12.02.25	11:01	Soil	BH25-07 at 2ft	1, 4oz jar	ICE		X	X					X							

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/3/25	0930	Sharon Minnix	[illegible]		12/3/25	0930
12/3/25	1911	[illegible]	[illegible]		12/4/25	830

Remarks: Direct Bill to Devon Energy ATTN: Jim Raley CC: Sally Carttar (Scarttar@vertexresource.com), Permian@vertexresource.com, and Sharon Minnix (Sminnix@vertexresource.com) for final report. Work order 21734040

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-38855-1

Login Number: 38855 **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	

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QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2530940750**
Incident Name	**NAPP2530940750 FIGHTING OKRA 18 CTB 4 @ FAPP2123136022**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Facility	**[fAPP2123136022] FIGHTING OKRA 18 CTB 4**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FIGHTING OKRA 18 CTB 4
Date Release Discovered	11/04/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Dump Line | Produced Water | Released: 47 BBL | Recovered: 30 BBL | Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Pinhole leak allowed fluid to impact pad surface.

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QUESTIONS (continued)

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	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 01/06/2026

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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 1 and 5 (mi.)
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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (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	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	5800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	14720
GRO+DRO	(EPA SW-846 Method 8015M)	11720
BTEX	(EPA SW-846 Method 8021B or 8260B)	39
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		01/05/2026
On what date will (or did) the final sampling or liner inspection occur		01/26/2026
On what date will (or was) the remediation complete(d)		03/27/2026
What is the estimated surface area (in square feet) that will be reclaimed		0
What is the estimated volume (in cubic yards) that will be reclaimed		0
What is the estimated surface area (in square feet) that will be remediated		6806
What is the estimated volume (in cubic yards) that will be remediated		280
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

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	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 01/06/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	6137
	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 540257
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	1/20/2026