### XTO Extension Request - Big Eddy Unit DI 9 35H NAPP2335435491

### Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Fri 4/5/2024 8:19 AM

To:Romero, Alan <alan.romero1@exxonmobil.com>

Cc:Ruth, Amy <amy.ruth@exxonmobil.com>;Garcia, Amanda <amanda.garcia@exxonmobil.com>;Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>;Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>;Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

RE: Incident **#NAPP2335435491** 

### Alan,

Your request for a 90-day extension to **July 4th**, **2024**, is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 506 W. Texas Ave.| Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Thursday, April 4, 2024 3:39 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO Extension Request - Big Eddy Unit DI 9 35H

Scott Rodgers • Environmental Specialist – Adv. Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd\_



From: Romero, Alan <<u>alan.romero1@exxonmobil.com</u>> Sent: Thursday, April 4, 2024 3:30 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
 Cc: Ruth, Amy <<u>amy.ruth@exxonmobil.com</u>>; Garcia, Amanda <<u>amanda.garcia@exxonmobil.com</u>>;
 Subject: [EXTERNAL] XTO Extension Request - Big Eddy Unit DI 9 35H

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

XTO is requesting an extension for the current deadline to complete remedial activities and submitting a report required in 19.15.29.12.B.(1) NMAC at the Big Eddy Unit DI 9 35H, incident number NAPP2335435491. The closure deadline was March 15, 2024, however, we had some recent staffing changes involving a couple of departures and while delegating certain tasks, this incident became an oversight and was missed on our end. In order to complete all remedial activities and submit a report, XTO requests an extension until July 5, 2024.

Please contact me with any questions or concerns.

Alan Romero Environmental Advisor Permian BU – New Mexico-Delaware ExxonMobil Upstream Oil & Gas Unconventional Direct: (575) 988-3383 alan.romero1@exxonmobil.com

**XTO ENERGY, INC. – An ExxonMobil Subsidiary** 

3104 E. Greene Street | Carlsbad, New Mexico 88220



This document may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not the intended recipient, you are notified that any unauthorized disclosure, copying, distribution or action on/of the contents of this document is prohibited.

### **ATTACHMENT 5**

•

	e: Big Eddy Unit DI 9 #035H rdinates: 32.457752,-103.879543	X: 605307	Y: 3591728	
	ific Conditions	Value	Unit	Reference
•	Depth to Groundwater (nearest reference)	109	feet	
	Distance between release and nearest DTGW reference	5,915	feet	
	Distance between release and hearest DTGW reference	1.12	miles	
1	Date of nearest DTGW reference measurement	Septer	nber 18, 1978	1
T	Depth to Groundwater (secondary reference)	125	feet	1
	Distance between release and secondary DTGW	6,103	feet	
	reference	1.16	miles	
	Date of secondary DTGW reference measurement	Janu	ıary 1, 1998	
2	Within 300 feet of any continuously flowing watercourse	904	feet	2
2	or any other significant watercourse	504	leet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake	5,934	feet	3
5	(measured from the ordinary high-water mark)	5,554	leet	5
4	Within 300 feet from an occupied residence, school,	18,697	feet	4
7	hospital, institution or church	10,007		-
	i) Within 500 feet of a spring or a private, domestic fresh			
5	water well used by less than five households for		feet	5
5	domestic or stock watering purposes, <b>or</b>			
	ii) Within 1000 feet of any fresh water well or spring	5,620	feet	5
	Within incorporated municipal boundaries or within a			
	defined municipal fresh water field covered under a			
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)	6
	NMSA 1978 as amended, unless the municipality			
	specifically approves			
7	Within 300 feet of a wetland	4,459	feet	7
	Within the area overlying a subsurface mine	No	(Y/N)	
8	Distance between release and nearest registered mine	21,100	feet	8
			Critical	
		Lt - b	High	
9	Within an unstable area (Karst Map)	High	Medium	9
			Low	
	Distance between release and nearest High Karst	0	feet	
	Within a 100-year Floodplain	>500	year	
10	Distance between release and nearest FEMA Zone A (100	F 162		10
	year Floodplain)	5,162	feet	
11	Soil Type	Fine sandy	loam, sandy loam	11
12	Ecological Classification	Lo	amy sand	12
13	Geology	A	Alluvium	13
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
			>100'	

### OSE POD 0.5 miles



STL002K, 8:14 19 PM GIE WATERS POOK



<b>Released to Imaging:</b> 7	7/15/	2024	1:34:50	PM
-------------------------------	-------	------	---------	----

8 8.47 8.28 6.7 m 8 8.28 6.38 Ulam

And MARK PC Statistical Ensembled States

Unless and undergring here the CDC's entropy application.



# New Mexico Office of the State Engineer 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 replaced, O=orpha C=the fil closed)	ned,						√ 2=NE est to lar	3=SW 4=SJ rgest) (N	E) IAD83 UTM in n	neters)	(In f	eet)	
POD Number	Code	POD Sub- basin ( CUB	County ED	64 1		Sec	<b>Tws</b> 21S	Rng 30E	<b>X</b> 604435	Y 3593203* 💼	DistanceDept	hWellDept		/ater olumn
<u>C 03726 POD3</u>		CUB	ED		3 2		215	30E	603463	3592652	2062	166		
<u>C 03773 POD1</u>	С	CUB	ED		22		21S	30E	604039	3589799	2308	55		
<u>C 03774 POD1</u>	С	CUB	ED	2		32	21S	30E	604039	3589799	2308	32		
<u>C 03772 POD1</u>	С	CUB	ED	2	42	32	21S	30E	603859	3589714	2479	30		
<u>C 03772 POD2</u>	С	CUB	ED	4	22	32	21S	30E	603850	3589707	2491	30		
<u>C 03772 POD3</u>	С	CUB	ED	4	22	32	21S	30E	603840	3589699	2502	30		
<u>C 03772 POD4</u>	С	CUB	ED	4	22	32	21S	30E	603824	3589692	2518	30		
<u>C 03772 POD5</u>	С	CUB	ED	4	2 2	32	21S	30E	603823	3589681	2528	30		
<u>C 03772 POD6</u>	С	CUB	ED	4	2 2	32	21S	30E	603814	3589666	2545	30		
<u>C 03772 POD7</u>	С	CUB	ED	4	2 2	32	21S	30E	603805	3589655	2559	30		
<u>C 03772 POD8</u>	С	CUB	ED	4	2 2	32	21S	30E	603797	3589636	2579	30		
<u>C 03726 POD1</u>		CUB	ED	3	24	19	21S	30E	602039	3592182	3299		220	
C 03234 EXPLORE		CUB	ED	1	2 3	35	21S	30E	607695	3589207*	3472	410		
<u>C 03625 POD1</u>		CUB	ED	1	4 4	18	21S	30E	602108	3593530	3671	310	118	192
<u>C 03726 POD2</u>		CUB	ED	3	43	18	21S	30E	601214	3593389	4417	210		
<u>C 03624 POD1</u>		CUB	ED	3	2 3	18	21S	30E	601286	3593689	4473	370	110	260
<u>C 04504 POD1</u>		CUB	ED	2	4 1	18	21S	30E	601436	3594476	4747	32		
<u>C 04504 POD3</u>		CUB	ED	4	2 1	18	21S	30E	601377	3594598	4866	62		
<u>C 04504 POD4</u>		CUB	ED	2	2 1	18	21S	30E	601362	3594709	4944	32		
										Avera	ge Depth to Water Minimum Dep Maximum Dept	th:	149 fee 110 fee 220 fee	et
Record Count: 20														
UTMNAD83 Radius	<u>s Search (in</u>	meters):												
<b>Easting (X):</b> 605	5307		North	ing (	<b>Y):</b>	3591	728			Radius: 5000				

\*UTM location was derived from PLSS - see Help

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

6/10/24 1:46 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Regeived h: DFD: 7/3/2024 11:55:94 A.M.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv"%3A"### 3.05



# New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

	(acre ft Sub	per annum)			Well	(R=POD has been replaced and no longer serves this file, C=the file is closed)		ers are sm	allest		SW 4=SE) st)	(NAD	83 UTM in me
WR File Nbr <u>C 02722</u>		Diversion Owner 0 U.S. DEPT. OF ENERGY, WIPP	County ED	POD Number <u>C 02722</u>	Tag	Code Grant	Source	<b>q q q</b> 6416 4 1 2 1	Sec			<b>X</b> 604435	¥ 3593203*
<u>C 03726</u>	CUB MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	<u>C 03726 POD3</u>			Shallow	432	20	21 <b>S</b>	30E	603463	3592652
<u>C 03773</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03773 POD1</u>		С	Shallow	422	32	218	30E	604038	3589799
<u>C 03774</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03774 POD1</u>		С	Shallow	242	32	218	30E	604038	3589799
<u>C 03772</u>	CUB CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03772 POD1</u>		С	Shallow	242	32	21 <b>S</b>	30E	603859	3589714
			ED	<u>C 03772 POD2</u>		С	Shallow	422	32	218	30E	603849	3589707
			ED	<u>C 03772 POD3</u>		С	Shallow	422	32	21S	30E	603840	3589699
			ED	<u>C 03772 POD4</u>		С	Shallow	422	32	21 <b>S</b>	30E	603823	3589692
			ED	<u>C 03772 POD5</u>		С	Shallow	422	32	218	30E	603822	3589681
			ED	<u>C 03772 POD6</u>		С	Shallow	422	32	218	30E	603813	3589666
			ED	<u>C 03772 POD7</u>		С	Shallow	422	32	218	30E	603805	3589655
			ED	<u>C 03772 POD8</u>		С	Shallow	4 2 2	32	218	30E	603796	3589636
<u>C 03726</u>	CUB MON	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03726 POD1</u>			Shallow	324	19	218	30E	602039	3592182
<u>C 03234</u>	CUB MON	0 U.S. DEPART OF ENERGY	ED	C 03234 EXPLORE			Artesiar	n 123	35	218	30E	607695	3589207*
<u>C 04420</u>	CUB MON	0 TETRA TECH INC	ED	<u>C 04420 POD1</u>	NA			344	32	218	30E	603624	3588504
<u>C 03625</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03625 POD1</u>			Shallow	144	18	218	30E	602108	3593530
<u>C 03726</u>	CUB MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	<u>C 03726 POD2</u>			Shallow	343	18	21S	30E	601213	3593389
<u>C 03624</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03624 POD1</u>			Shallow	323	18	218	30E	601286	3593689
<u>C 03363</u>	C STK	3 MENDY WATTS	ED	<u>C 03363</u>			Shallow	444	25	21 <b>S</b>	29E	601615	3589198
<u>CP 00648</u>	CP IND	1451 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03672 POD1</u>				323	18	218	30E	601209	3593779
<u>C 04504</u>	CUB GEO	0 INTREPID POTASH	ED	<u>C 04504 POD1</u>	NA			2 4 1	18	218	30E	601436	3594476
			ED	<u>C 04504 POD3</u>				4 2 1	18	21 <b>S</b>	30E	601376	3594598
<u>C 04674</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 8</u>	NA			141	18	218	30E	601139	3594281
			ED	<u>C 04674 POD 9</u>				141	18	218	30E	601148	3594314
<u>C 04504</u>	CUB GEO	0 INTREPID POTASH	ED	<u>C 04504 POD4</u>	NA			2 2 1	18	218	30E	601362	3594709
<u>C 04674</u>	CUB EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 7</u>	NA			141	18	218	30E	601053	3594276
Record Count:	26												
UTMNAD8.	<u> 3 Radius Search (</u>	<u>in meters):</u>											
Easting (2	<b>X):</b> 605307	<b>Northing (Y):</b> 3591728		Radius: 5000									

Sorted by: Distance

\*UTM location was derived from PLSS - see Help

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

6/10/24 1:46 PM

ACTIVE & INACTIVE POINTS OF DI

Regeived by OGD: 7/3/2024 11:55 state AM.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=C&RH203870f.206

er	WR File Number:	C 0377	3	Subbasin	: CUB	<b>Cross</b>	Reference:	-				
at image list	<b>Primary Purpose:</b>	CLS	CLOSE	D FILE								
<u>et image list</u>	<b>Primary Status:</b>	CLS	CLOSE	D FILE								
	Total Acres:		Subfile: -				Header: -					
	<b>Total Diversion:</b>	0		Cause/Ca	ise: -							
	Owner:	SCHLU	MBERG	ER TECHNOLO	GY CORP							
	Contact:	VIRGII	LIO COC	IANNI								
ocument	s on File											
			Status	-		From/			~ .			
	Trn #         Doc         File/A           583076         CLOSE         2016-		_	2 Transaction D LS RENUMBERE 12368POD1		<b>То</b> Т	Acres 0	<b>Diversion</b> 0	Consumptiv (			
						_	0	0				
g <u>et</u> images	<u>552040 EXPL 2014-0</u>	<u>8-05</u>	PMT LO	DG C 03773 POD1		Т	0	0				
	x	<u>8-05</u>	PMT LO	DG C 03773 POD1		Т	0	0				
<u>get</u> images lace of U	x				CU Use Pr			r Location D				

6/10/24 1:52 PM

WATER RIGHT SUMMARY

Regreined h: OGD: 7/3/2024 11:55 : State AM.us/nmwrrs/ReportDispatcher?type=TRANSHTML&name=TransactionSummaryHTML.jrxml&basin Perender 206

# New Mexico Office of the State Engineer Transaction Summary

			EXPL Permit To Explore	e	
saction Nu	mber: 5520	40	Transaction Desc: C 03773	3 POD1	<b>File Date:</b> 08/04/2014
Primary St Secondary Person Ass	Status: LC		nit I Log Received		
	-		ERGER TECHNOLOGY CORP	,	
-	-		COCIANNI		
x Events					
	Date	Туре	Description	Comment	<b>Processed By</b>
get images	08/04/2014	APP	Application Received	*	*****
	08/05/2014	FTN	Finalize non-published Trans.		*****
	08/06/2014	CN5	Meter Installation Request		*****
	08/28/2014	QAT	Quality Assurance Completed	SQ2	*****
get images	09/12/2014	LOG	Well Log Received	*C-3773 POD1	*****
<u>intages</u>	02/06/2015	QAT	Quality Assurance Completed	DATA	*****
	04/21/2015	QAT	Quality Assurance Completed	IMAGE	*****
x Water Rig WR File	ght Informatio	on Acre	s Diversion Consumpt	tive Purpose of Us	
C 0377			o 0	-	e JTION CONTROL WEL
	nt of Diversio		- ×	10210000	
- 01	3773 POD1		604039 3589799		

#### Remarks

"FORMER DOWELL SCHLUMBER FACILITY, 507 EAST RICHEY AVENUE, ARTESIA, NM 88210"

#### Conditions

- 5B A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceding calendar months.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- C2 No water shall be diverted from this well except for testing purposes which shall not exceed twenty (20) cumulative days, and well shall be plugged or capped on

or before, unless a permit to use water from this well is acquired from the Office

- C **DirtherState Engined** must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between geologic zones.

#### Action of the State Engineer

** See II	nage For Any Additional Conditions of Approval **
<b>Approval Code:</b>	A - Approved
Action Date:	08/05/2014
Log Due Date:	08/31/2015
State Engineer:	Scott A. Verhines, P.

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

6/10/24 1:52 PM

TRANSACTION SUMMARY

.

Logout Refresh Page All

View... Edit... Send to...

# WR\_ID DB\_File\_Number TRN\_NBR Event Comment C 03773 552040 2491225 C 03773 552040 2014-08-04 EXPL 2491225 2014-09-12 LOG Comment

showdoc.do	
Showdoc.do	

1 / 5 - 100% +

TACAT	and the second s	ELNAME/S	a Analogy Corpo	PHON	E (OPTRONAL)		
WILLIAM N			e coontas ulexant Sugar La	nd	Suga	rLand	TX X
CONTRACT AND N	WELL LOCATE (PROMO	N 14	10. 10. 10. 10.	the second se	549	Auch anguastic case for Auch anguastic states Auch anguastic states	erts (# 1 80
1.0	LABORT		Leonardean			Longa Antio	10010
	WD-1211 9422-14	CALLER T	Bryan Mydoske Skitchit transp 8-22-14	NEW CONCERNMENT	Note House Party	National EWP	er 1400
	-		C armor	C servera @ sources	investing .	NA VIEN A	NUL 30700
APPROACTED	Designed to		C an	Ciero Autorio-e	S man	un Auger	
CARTING INFO	in the second second	Dian tagb 150	BORESKAR BOM Dedet	CALONG MATTERDAL AND/CH GRADE (milely und cosing sting, and automations of screen)	CASING CONNACTION TUPS	CASINO	Costev Text
4	0	15	121.4	PK .	Flush	4	40
÷.,	15	35	123/4	PKC .	fligh	4	40
Distances of	55	60	125.00	NC	Flash	4	40
1					-	-	-
MATTORIAL.	DOPTN FROM	004 Nati 10	DORESHOLE DEXM (Socher)	LIET ANNELAS STALM GRAVIL PACK SEST-ANN See Milached		AMOUNT (sofic fee)	
TALK NAME		-	-				-

### Received by OCD: 7/3/2024 11:55:04 AM Big Eaay Unit DI 9 35H

USGS 322814103531501 DTGW = 109 feet bgs, measured September 18, 1978.

USGS 322736103513401 DTGW = 125 feet bgs, measured January 1, 1998



### Legend

- 5 0.5 miles Radius
- Elig Eddy Unit DI 9 35H Release
- USCS 322238103513401 6.103 feet (1.16 miles)

Page 12 of 206

LISGS 322614103531501 5,915 leet (1.12 miles)

Storts Sty Links Disaster Renated



122756103513401

USGS Home Contact USGS Search USGS



**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

#### Click to hideNews Bulletins

- Explore the <u>NEW USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🛄

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

### Search Results -- 1 sites found

Agency code = usgs site no list =

• 322814103531501

**Minimum number of levels =** 1 <u>Save file of selected sites</u> to local disk for future upload

### USGS 322814103531501 21S.30E.21.1211 WIPP-27

Eddy County, New Mexico Latitude 32°28'18.87", Longitude 103°53'20.58" NAD83 Land-surface elevation 3,200 feet above NGVD29 The depth of the hole is 588 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1978-09-18			D 62610		3401.00	NGVD29	1		S USGS	S	А
1978-09-18			D 62611		3402.58	NAVD88	1		s USGS	S	А
1978-09-18			D 72019	109.00			1		S USGS	S	А

Explanation							
Section	Code	Description					
Water-level date-time accuracy	D	Date is accurate to the Day					
Parameter code	62610	Groundwater level above NGVD 1929, feet					
Parameter code	62611	Groundwater level above NAVD 1988, feet					
Parameter code	72019	Depth to water level, feet below land surface					
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988					
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929					
Status	1	Static					
Method of measurement	S	Steel-tape measurement.					
Measuring agency	USGS	U.S. Geological Survey					
Source of measurement	S	Measured by personnel of reporting agency.					
Water-level approval status	А	Approved for publication Processing and review completed.					

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team



USGS Home Contact USGS Search USGS



**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

#### Click to hideNews Bulletins

- Explore the <u>NEW USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🛄

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

### Search Results -- 1 sites found

Agency code = usgs site no list =

• 322736103513401

**Minimum number of levels =** 1 <u>Save file of selected sites</u> to local disk for future upload

### USGS 322736103513401 21S.30E.22.42430

Eddy County, New Mexico Latitude 32°27'36", Longitude 103°51'34" NAD27 Land-surface elevation 3,189 feet above NAVD88 The depth of the well is 220 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### **Output formats**

able of data	
ab-separated data	
Graph of data	
Reselect period	

Regeired & OFF: 7/3/2024 11:55:04 AM

USGS Groundwater for USA: Water Levels -- 1 sites

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
L959-04-15	i	D	62610		3083.27	NGVD29	1	Z			
1959-04-15	i	D	62611		3084.85	NAVD88	1	Z			
1959-04-15	i	D	72019	104.15			1	Z			
1972-09-25	i	D	62610		3075.92	NGVD29	1	Z			
1972-09-25	i	D	62611		3077.50	NAVD88	1	Z			
1972-09-25	;	D	72019	111.50			1	Z			
1976-03-17	,	D	62610		3066.10	NGVD29	1	Z			
1976-03-17	,	D	62611		3067.68	NAVD88	1	Z			
1976-03-17	,	D	72019	121.32			1	Z			
1976-12-08	;	D	62610		3070.74	NGVD29	1	Z			
1976-12-08	1	D	62611		3072.32	NAVD88	1	Z			
1976-12-08	:	D	72019	116.68			1	Z			
1983-01-18	1	D	62610		3068.67	NGVD29	1	Z			
1983-01-18	:	D	62611		3070.25	NAVD88	1	Z			
1983-01-18	1	D	72019	118.75			1	Z			
1987-10-15	i	D	62610		3063.29	NGVD29	1	Z			
1987-10-15	;	D	62611		3064.87	NAVD88	1	Z			
1987-10-15	;	D	72019	124.13			1	Z			
1988-03-18	1	D	62610		3062.66	NGVD29	1	Z			
1988-03-18	;	D	62611		3064.24	NAVD88	1	Z			
1988-03-18	1	D	72019	124.76			1	Z			
1992-12-09	1	D	62610		3063.18	NGVD29	1	S			
1992-12-09	)	D	62611		3064.76	NAVD88	1	S			
1992-12-09	)	D	72019	124.24			1	S			
1998-01-28	1	D	62610		3062.02	NGVD29	1	S			
1998-01-28	;	D	62611		3063.60	NAVD88	1	S			
1998-01-28	1	D	72019	125.40			1	S			

Explanation

### Regeived by OFD: 7/3/2024 11:55:04 AM

USGS Groundwater for USA: Water Levels -- 1 sites

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

#### Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-05-11 20:39:41 EDT 0.28 0.24 nadww02 USLOOM.

Reggived by OGD: 7/3/2024 11:55:04 Am.us/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=C&nbr=08488 1811 206

	WR File Number:	C 03726		Subbasin:	CUB	Cross Ref	erence	_	
			ONITOR	ING WELL	201				
t image list	Primary Status:	-							
	Total Acres:			Subfile:	-			Header:	-
	<b>Total Diversion:</b>	0		Cause/Cas	se: -				
	Agent:	FOTH INF	RASTRU	CTURE & ENV	/IROMT				
	Contact:	RICHARD	SCHOW	ENGERDT					
	Owner:	INTREPID	POTASH	I-NEW MEXIC	O LLC				
	Contact:	KATIE KEI	LLER						
	X								
cument	x on File		Status			From/			
cument	x on File Trn # Doc File	/Act 1		Transaction De	esc.	From/ To	Acres	Diversion	Consumptiv
<u>get</u>			2	Transaction De C 03726 POD1-			Acres 0	<b>Diversion</b> 0	Consumptiv
<u>get</u> images	<b>Trn # Doc File</b> . <u>542145 EXPL 2014-</u> x		2			То			Consumptiv
<u>get</u> images	Trn # Doc File		2 1T LOG	C 03726 POD1-		To T			Consumptiv
g <u>et</u> images urrent Pe	Trn # Doc File 542145 EXPL 2014- x oints of Diversion	<u>-02-27</u> PN	2 IT LOG Q	C 03726 POD1-	3 (NAD83 UTM	<b>To</b> T	0	0	
get images urrent Pe POD I	<b>Trn # Doc File</b> . <u>542145 EXPL 2014-</u> x	<u>-02-27</u> PN	2 IT LOG Q 64Q160	C 03726 POD1-	-3	To T	0	0 Location Des	
get images rrent Po POD r <u>C 0372</u>	Trn # Doc File 542145 EXPL 2014- x oints of Diversion Number Well	<u>-02-27</u> PN Tag Source	Q 64Q160 7 3 2	C 03726 POD1-	3 (NAD83 UTM X	To T I in meters)	0 Other	0 Location Des	

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

5/29/24 2:53 PM

WATER RIGHT SUMMARY

.



### U.S. Fish and Wildlife Service National Wetlands Inventory

# Intermittent 904 feet



### Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland
  - Freshwater Pond

Freshwater Emergent Wetland

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.







### May 11, 2024

### Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

- - **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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

> National Wetlands Inventory (NWI) This page was produced by the NWI mapper

### Received by OCD: 7/3/2024 11:55:04 AM BIG Eddy Unit DI 9 35H Proximity

### Legend

- Big Eddy Unit DI 9 35H Release
- FEMAFlood Zone A(100-year floodplain)
- Lowing NM, 87.518 foot (16.6 millos).
- Nearest FEMA Flood Zone A (100-year floodplain) 5.162 feet (0.98 miles)
- Noarest Residence 18,697 feet (2.54 miles)



Page 21 of 206

Google Earth Released to Imaging: 7/15/2024 1:34:50 PM Regeived by OGD: 7/3/2024 11:55:94 A.M.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"podByLocOwner"%2C%0A"PodNbrDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv"%3A"false"%2C%0A"WellTagDiv



# New Mexico Office of the State Engineer **Active & Inactive Points of Diversion**

(with Ownership Information)

	6.1	(acre ft	per annum)				(R=POD has been replaced and no longer serves this file, C=the file is closed)	••	rs are sm			=SW 4=SE) est)	(NAE	83 UTM in meters	)
<b>WR File Nbr</b> <u>C 02722</u>		Use I MON	Diversion Owner 0 U.S. DEPT. OF ENERGY, WIPP		<b>POD Number</b> <u>C 02722</u>	Well Tag	Code Grant	Source	<b>q q q</b> 6416 4 1 2 1			0	<b>X</b> 604435	<b>Y</b> 3593203*	Distance 1713
<u>C 03726</u>	CUB	MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	<u>C 03726 POD3</u>			Shallow	4 3 2	20	218	30E	603463	3592652	2062
<u>C 03773</u>	CUB	CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03773 POD1</u>		С	Shallow	4 2 2	32	218	30E	604038	3589799	2308
<u>C 03774</u>	CUB	CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03774 POD1</u>		С	Shallow	242	32	218	30E	604038	3589799	2308
<u>C 03772</u>	CUB	CLS	0 SCHLUMBERGER TECHNOLOGY CORP	ED	<u>C 03772 POD1</u>		С	Shallow	242	32	218	30E	603859	3589714	2479
				ED	<u>C 03772 POD2</u>		С	Shallow	4 2 2	32	218	30E	603849	3589707	2491
				ED	<u>C 03772 POD3</u>		С	Shallow	4 2 2	32	218	30E	603840	3589699	2502
				ED	<u>C 03772 POD4</u>		С	Shallow	4 2 2	32	21S	30E	603823	3589692	2518
				ED	<u>C 03772 POD5</u>		С	Shallow	4 2 2	32	21S	30E	603822	3589681	2528
				ED	<u>C 03772 POD6</u>		С	Shallow	4 2 2	32	218	30E	603813	3589666	2545
				ED	<u>C 03772 POD7</u>		С	Shallow	4 2 2	32	218	30E	603805	3589655	2559
				ED	<u>C 03772 POD8</u>		С	Shallow	4 2 2	32	218	30E	603796	3589636	2579
<u>C 03726</u>	CUB	MON	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03726 POD1</u>			Shallow	324	19	218	30E	602039	3592182	3299
<u>C 03234</u>	CUB	MON	0 U.S. DEPART OF ENERGY	ED	C 03234 EXPLORE			Artesian	123	35	218	30E	607695	3589207*	3472
<u>C 04420</u>	CUB	MON	0 TETRA TECH INC	ED	<u>C 04420 POD1</u>	NA			344	32	21S	30E	603624	3588504	3636
<u>C 03625</u>	CUB	EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03625 POD1</u>			Shallow	144	18	218	30E	602108	3593530	3671
<u>C 03726</u>	CUB	MON	0 FOTH INFRASTRUCTURE & ENVIROMT	ED	<u>C 03726 POD2</u>			Shallow	3 4 3	18	21S	30E	601213	3593389	4417
<u>C 03624</u>	CUB	EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03624 POD1</u>			Shallow	3 2 3	18	21S	30E	601286	3593689	4473
<u>C 03363</u>	С	STK	3 MENDY WATTS	ED	<u>C 03363</u>			Shallow	444	25	21S	29E	601615	3589198	4474
<u>CP 00648</u>	СР	IND	1451 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 03672 POD1</u>				3 2 3	18	21S	30E	601209	3593779	4582
<u>C 04504</u>	CUB	GEO	0 INTREPID POTASH	ED	<u>C 04504 POD1</u>	NA			2 4 1	18	21S	30E	601436	3594476	4747
				ED	<u>C 04504 POD3</u>				4 2 1	18	218	30E	601376	3594598	4866
<u>C 04674</u>	CUB	EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 8</u>	NA			141	18	218	30E	601139	3594281	4887
				ED	<u>C 04674 POD 9</u>				141	18	218	30E	601148	3594314	4897
<u>C 04504</u>	CUB	GEO	0 INTREPID POTASH	ED	<u>C 04504 POD4</u>	NA			2 2 1	18	218	30E	601362	3594709	4944
<u>C 04674</u>	CUB	EXP	0 INTREPID POTASH-NEW MEXICO LLC	ED	<u>C 04674 POD 7</u>	NA			141	18	218	30E	601053	3594276	4958

Retensed on Finite Instant States (Content of Content o



# New Mexico Office of the State Engineer Point of Diversion Summary

	(quarters are 1=NW 2=N (quarters are smallest to	· · · · ·	(NAD83 UTM in meters)			
Well Tag POD Number	Q64 Q16 Q4 Sec	8	X Y			
C 02722	1 2 1 21	21S 30E 6	04435 3593203*			
Driller License: 1292	Driller Company:	BENTLE WATH	ER WELL SERVICE			
Driller Name:						
Drill Start Date:	Drill Finish Date:	12/31/1978	Plug Date:			
Log File Date:	PCW Rcv Date:		Source:			
Pump Type:	Pipe Discharge Size:		Estimated Yield:			
Casing Size: 5.50	Depth Well:	592 feet	Depth Water:			

\*UTM location was derived from PLSS - see Help

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

6/10/24 1:58 PM

POINT OF DIVERSION SUMMARY

Regeived by OGD: 7/3/2024 11:55:94te.11.us/nmwrrs/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=C&118#024221.206

	WR File Number:	C 02722		Subbasin	CUB	Cross R	eference:	-	
	Primary Purpose:	MON N	IONITOR	ING WELL					
	Primary Status:	PMT P	ERMIT						
	<b>Total Acres:</b>	0		Subfile:	-			Header: -	
	<b>Total Diversion:</b>	0		Cause/Ca	se: -				
	Owner:	U.S. DEPT	. OF ENE	RGY, WIPP					
	Contact:	DOUGLA	S C. LYNI	N					
ocuments		14 -4	Status	Turnersting D		From/		Diamian	Communitie
	<b>Trn # Doc File</b> / 186747 REPAR 2000		1 2 AN CAN	<b>Transaction D</b> C 02722	sc.	<b>То</b> Т	Acres 0	Diversion 0	Consumptiv
-	186744 DCL 2000-0		CL PRC			T	0	0	
irrent Po	oints of Diversion		0		(NAD83 UT	M in meters)			
POD N <u>C 0272</u>	Number Well	Tag Sourc	-	<b>Q4Sec Tws Rng</b> 1 21 21S 30E	<b>X</b> 604435	Y 3593203*	Other L	ocation Des	se
	*An (*) after north	ing value indi	ates UTM lo	ocation was derive	l from PLSS	- see Help			

6/10/24 1:59 PM

WATER RIGHT SUMMARY



**Released to Imaging:** 

7/15/2024 1:34:50 PM

### U.S. Fish and Wildlife Service National Wetlands Inventory

# Wetland 4,459 feet



### May 11, 2024

### Wetlands



- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- atland 🗖
  - Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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.

Page

25

S

206

# Nearest Mine 21,100 feet



Approprie Rome etc.

A Prop.

the sale.

Public Townships

12 Bell Tess Parts & Holes, Chieff, Son Tarrier, Garrer, Valdinger, Garlinsteinungen, Hu HUTMAR, 2022, DN: 4971 Mills, 10745, San Huter Korn, 4020, This A24

28

1.35

CANCERS IN LOCATION

When the strength of the Period System is the second operation in the second strength of the Station of the Sta

26

Page

Received by OCD: 7/3/2024 11:55:04 AM



.

- Г

Karst Potential     Overview Map       Critical     0     0.25     0.5     1 mi       High    I     Site Buffer (1000 ft.)     Verview Map     1 mi       Medium     Low     Low     Low     Low	<b>Detail Map</b> 0 150 300 600 ft
Map Center: Lat/Long 32.45761°,-103.87952° NAD 1983 UTM Zone 13N Date: May 15/24 ospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for Note: Inset Map, Esri 2022; Over	Karst Potential Map       Figure:         Big Eddy Unit DI 9 35H       X         view Map: Esti World Topographic Karst potential data sources from Poswall Eigld Office Bureau of Land Management 2020 or United States
ccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Department of the Interior, Burea	view Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, (2018). Karst Potential. u of Land Management, (2018). Karst Potential. VERSATILITY. EXPERTISE.

# National Flood Hazard Layer FIRMette



### Legend





United States Department of Agriculture

VRC

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

# Custom Soil Resource Report for Eddy Area, New Mexico





Released to Imaging: 7/15/2024 1:34:50 PM

Area of Interest (AOI)       Image: Story Spot         Soil       Area of Interest (AOI)       Image: Story Spot         Soil Map Unit Polygons       Image: Very Story Spot         Soil Map Unit Lines       Image: Very Story Spot         Soil Map Unit Lines       Image: Very Story Spot         Soil Map Unit Lines       Image: Very Story Spot         Soil Map Unit Points       Image: Very Story Spot         Special Point Features       Image: Very Story Spot         Special Point Features       Image: Very Story Spot         Special Point Features       Image: Very Story Spot         Image: Very Story Spot       Image: Very Story Spot         Image: Very Story Spo	<ul> <li>1:20,000.</li> <li>Warning: Soil Map may not be valid at this scale.</li> <li>Warning: Soil Map may not be valid at this scale.</li> <li>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.</li> </ul>
Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points cial Point Features Blowout Borrow Pit Clay Spot Clay Spot	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
Lines Points Water Featu Transportati	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
Vater Featu Water Featu Transportati	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
Water Featu	cultuasuity sous triat could riave been shown at a ritore detailed scale
Transportat	
1	Please rely on the bar scale on each map sheet for map measurements.
Gravel Pit	Source of Map: Natural Resources Conservation Service Web Soil Survev URL:
Gravelly Spot	Coordinate System: Web Mercator (EPSG:3857)
Landfill Local Roads	Maps from the Web Soil Survey are based on the Web Mercator
Lava Flow Background	projection, which preserves direction and shape but distorts
📥 Marsh or swamp	Albers equal-area conic projection, should be used if more
Mine or Quarry	accurate calculations of distance or area are required.
Miscellaneous Water	This product is generated from the USDA-NRCS certified data as
Perennial Water	of the version date(s) listed below.
Rock Outcrop	Soil Survey Area: Eddy Area, New Mexico
Saline Spot	Survey Area Data: Version 19, Sep 7, 2023
Sandy Spot	Soil map units are labeled (as space allows) for map scales
Severely Eroded Spot	1:50,000 or larger.
Sinkhole	Date(s) aerial images were photographed: Feb 7. 2020—Mav
Slide or Slip	
Sodic Spot	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

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	30.9	100.0%
Totals for Area of Interest		30.9	100.0%

# **Map Unit Descriptions**

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

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

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

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

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

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

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

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

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

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

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

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

### Eddy Area, New Mexico

### PD—Pajarito-Dune land complex, 0 to 3 percent slopes

### **Map Unit Setting**

National map unit symbol: 1w55 Elevation: 3,000 to 5,000 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 190 to 220 days Farmland classification: Not prime farmland

### **Map Unit Composition**

Pajarito and similar soils: 46 percent Dune land: 45 percent Minor components: 9 percent Estimates are based on observations, descriptions, and transects of the mapunit.

### **Description of Pajarito**

#### Setting

Landform: Plains, interdunes, dunes Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear Across-slope shape: Linear, convex Parent material: Mixed alluvium and/or eolian sands

#### **Typical profile**

*H1 - 0 to 9 inches:* fine sandy loam *H2 - 9 to 36 inches:* fine sandy loam *H3 - 36 to 72 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: Very low
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: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.4 inches)

### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

#### **Description of Dune Land**

#### Setting

Landform: Dune fields Landform position (two-dimensional): Shoulder, backslope, footslope Landform position (three-dimensional): Talf Down-slope shape: Convex, linear Across-slope shape: Convex, linear Parent material: Mixed alluvium and/or eolian sands

### **Typical profile**

H1 - 0 to 6 inches: sandy loam H2 - 6 to 60 inches: sandy loam

### Interpretive groups

Land capability classification (irrigated): None specified Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

### **Minor Components**

### Rock outcrop

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

### Largo

Percent of map unit: 4 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No
**Conservation Service** 

Ecological site R070BD003NM Loamy Sand

Accessed: 05/12/2024

#### **General information**

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

#### Figure 1. Mapped extent

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

#### Associated sites

R070BD004NM	<b>Sandy</b> Sandy
R070BD005NM	<b>Deep Sand</b> 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	<ul><li>(1) Fan piedmont</li><li>(2) Alluvial fan</li><li>(3) Dune</li></ul>
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	<ul><li>(1) Fine sand</li><li>(2) Fine sandy loam</li><li>(3) Loamy fine sand</li></ul>
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

#### **Released to Imaging:** 7/15/2024 1:34:50 PM

#### Received by OCD: 7/3/2024 11:55:04 AM

Page 39	) of 20	6
---------	---------	---

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

# MLRA-42, SD-3, Loamy Sand



In Drought, over grazing, fire suppression.

1b. Brush control, prescribed grazing

2.a Severe loss of grass cover, fire suppression, erosion.

2h. 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

#### Received by OCD: 7/3/2024 11:55:04 AM

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 *Received by OCD: 7/3/2024 11:55:04 AM* 



The problem income

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 sol erosion • Bare patch expansion • Jone mesquite/snakeweed abundance

#### Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cove (%
Grass	/Grasslike		-		
1	Warm Season			61–123	
	little bluestem	SCSC	Schizachyrium scoparium	61–123	-
2	Warm Season	·	·	37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	-
3	Warm Season			37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	-
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	-
4	Warm Season			123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	-
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	-
5	Warm Season			123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	
	plains bristlegrass	SEVU2	Setaria vulpiseta	123–184	
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	
6	Warm Season	123–184			
	spike dropseed	SPCO4	Sporobolus contractus	123–184	-
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	-
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	-
	Arizona cottontop	DICA8	Digitaria californica	61–123	-
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	-
Shrub	/Vine	I			
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	
	giant dropseed	SPGI	Sporobolus giganteus	37–61	
10	Shrub	1	1	61–123	

Released to Imaging: 7/15/2024 1:34:50 PM



# 7/15/2024 1:34:50 PM

51100A, 54736/M		
(Analysis)		
They will not a state of the second state of the second		
The Area and a set		
The Hard (Schemes and New York, and		

17 2 - Grinn Apple of short (heave b harries) - Sector Apple is man fair of Sector Apple in the to We

Second and the second secon

1 (p-Andrew Street Speeds Advance) (non-Namena)

The - Alifer Handle Persons & really Treasured.

**Released** to

Imaging:

100

#### 1,744,448

	- 38	1	(int)
1.0	23		10 km

wide the system (

206

2007 The Tableson Date of Difference Dates (2007) Transmission Property Control of Direct Dates (2007) Transmission Dates

Des - Rasiler a collected and a reason of the location of

Geology



#### **General Information**

NMOCD District:	District 2 – Hobbs	Incident ID:	nAPP2335435491
Landowner:	State of New Mexico	RP Reference:	N/A
Client:	XTO Energy, Inc.	Site Location:	Big Eddy Unit DI 9 35H
Date:	June 10, 2024	Project #:	24E-01314
Client Contact:	Amy Ruth	Phone #:	432.661.0571
Vertex PM:	Sally Carttar	Phone #:	575.361.3561

#### Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. Areas of environmental concern identified and delineated include the wellhead area, shown on Figure 1 (Attachment 1). 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 2. The closure criteria for the site are presented below.

Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs					
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Lincit			
10,000 mg/11D3	Constituent	Limit			
	Chloride	600 mg/kg			
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg			
	BTEX	50 mg/kg			
	Benzene	10 mg/kg			

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics BTEX – benzene, toluene, ethylbenzene and xylenes

#### Site Assessment/Characterization

Site characterization was completed on April 26, 2024. A total of 30 sample points were established and 68 samples collected for field screening. Samples at the greatest lateral limits and deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 48 samples were submitted to Eurofins Environmental Testing, Albuquerque, New Mexico, for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5. Exceedances to reclamation and remediation criteria are identified in the table as bold with grey background. Several samples collected within the documented release area were below characterization criteria limits, as shown in Attachment 2.

A total of 58 sample points were established, and 144 samples collected for field screening. Samples at the greatest lateral limits and deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 142 samples were submitted to Eurofins Environment Testing South Central, formerly, Hall Environmental Analysis Laboratory, Albuquerque, New Mexico for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 3 (Attachment 2). Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5. Exceedances to reclamation and remediation criteria are identified in the table as bold with green or gray



background. Several samples collected within the documented release area were below characterization criteria limits, as shown in Attachment 2.

#### **Remedial Activities**

#### **Deferral Request**

Based on the initial characterization of the impacted area, it was determined that the dimensions of the contamination extend to the edges of the concrete pad supporting the pumpjack for the well. Vertex and Devon Energy Production Company, LP would like to request a deferral for the impacted area beneath the pumpjack. As the well is in production, excavation will be halted adjacent to pumpjack equipment to preserve the structural integrity of the ground beneath equipment. This deferral is being requested due to safety concerns with operating near the production equipment. Remediation of the release area immediately under or around the production equipment will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 NMAC. The deferral area and proposed excavations on the pad are included in Figure 2 of Attachment 1.

#### General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extents of the known contamination or in 2 feet 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.

#### nAPP2335435491 - Release on Pad Area

A total of 30 samples points were established for analysis in the area surrounding the pumpjack. Exceedances to closure criteria were found at multiple sample points within the release area shown on Figure 1 (Attachment 1). A hydrovac truck or hand tools will be utilized to remove contaminated soil in close proximity to underground lines running through the proposed excavation area and around the wellhead and pumpjack equipment. The surrounding excavation will be completed using heavy equipment. Field screening will be utilized to find the horizontal and vertical extents of the spill area. Confirmatory samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is between **400 and 700 cubic yards**, depending on the final excavation depths. Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan. The completed NMCOD C-141 Reports for the incidents are presented in Attachment 6.



Sample Point	Excavation Depth	Remediation Method
BH24-01	4'	Hydrovac/Handcrew
BH24-02	1-2'	Hydrovac/Handcrew
BH24-03	1-2'	Excavator
BH24-04	1-2'	Excavator
BH24-05	1-2'	Hydrovac/Handcrew
BH24-06	1-2'	Hydrovac/Handcrew
BH24-10	3-4'	Excavator
BH24-12	3-4'	Excavator
BH24-13	3-4'	Hydrovac/Handcrew
BH24-16	1-2'	Excavator
BH24-17	1-2'	Hydrovac/Handcrew
BH24-18	1-2'	Excavator
BH24-19	1-2'	Excavator
BH24-20	1-2'	Excavator
BH24-21	1-2'	Excavator
BH24-23	1-2'	Excavator
BH24-26	1-2'	Hydrovac/Handcrew
BH24-28	1-2'	Excavator

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

Lakin Pullman

Lakin Pullman, B.Sc. ENVIRONMENTAL SPECIALIST, REPORTING

June 10, 2024 Date

Sally Carttar

Sally Carttar, BA PROJECT MANAGER, REPORT REVIEW

June 10, 2024

Date



#### Attachments

- Attachment 1. Characterization Sampling and Excavation Site Schematics
- Attachment 2. Field Screening and Laboratory Results Table
- Attachment 3. Daily Field Reports with Photographs
- Attachment 4. Laboratory Data Reports with Chain of Custody Forms
- Attachment 5. Closure Criteria Research
- Attachment 6. NMOCD C-141 Report

# **ATTACHMENT 1**



Released to Imaging: 7/15/2024 1:34:50 PM

-0131

Unit DI 9 35F

<u>M</u>

gy/24E-01314



Jnit DI 9

24E-01314

# **ATTACHMENT 2**

Client Name: XTO Energy, Inc Site Name: Big Eddy Unit DI 9 35H NMOCD Tracking #: nAPP2335435491 Project #: 24E-01314 Lab Reports: 885-2895-1, 885-2902-1, and 885-3596-1

Table 2. Initial Characterization Sample Field Screen an					nd Laboratory Results - Depth to Groundwater <50 feet bgs								
	Sample Des	cription	Fi	eld Screeni	ng	Petroleum Hydrocarbons							
			ds.			Vola	atile			Extractable	2	1	Inorganic
Sample ID	Depth (ft)	Sample Date	(PID) (PID) (PID)	<ul> <li>Extractable Organic</li> <li>Compounds (PetroFlag)</li> </ul>	() () () () () () () () () () () () () (	euseue Beuzeue (mg/kg)	) (m) (m) (m) (m) (m) (m) (m) (m) (m) (m	영제 Gasoline Range Organics (GRO)	월 Diesel Range Organics (DRO)	월 Motor Oil Range Organics (MRO)	(Oud + Oug) (mg/kg)	없) 제 Total Petroleum 위 Hydrocarbons (TPH)	ay (ay/Chloride Concentration (영
	0	April 13, 2024	1,500	-	2,472	ND	0.81	51	4,900	2,600	4,951	7,551	1,900
BH24-01	2	April 13, 2024	420	444	487	ND	ND	ND	240	150	240	390	550
	3.5	April 13, 2024	73	130	219	ND	ND	ND	35	ND	35	35	90
	0	April 13, 2024	94	-	3,703	ND	ND	13	5,100	2,000	5,113	7,113	2,100
BH24-02	2	April 13, 2024	5	22	72	ND	ND	ND	ND	ND	ND	ND	8.4
	4	April 13, 2024	4	48	163	ND	ND	ND	ND	ND	ND	ND	11
BH24-03	0	April 13, 2024 April 13, 2024	5 5	- 25	4,478	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- 460
01124-03	4	April 13, 2024 April 13, 2024	4	35 50	808 360	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	460 270
<u> </u>	0	April 13, 2024	6	9,430	740	-	-	-	-	-	-	-	-
BH24-04	2	April 13, 2024	3	40	663	ND	ND	ND	ND	ND	ND	ND	290
	3	April 13, 2024	2	91	754	ND	ND	ND	13	ND	13	13	320
	0	April 13, 2024	2	97	173	ND	ND	ND	ND	ND	ND	ND	75
BH24-05	2	April 13, 2024	1	22	926	ND	ND	ND	ND	ND	ND	ND	310
	4	April 13, 2024	1	42	1,001	ND	ND	ND	ND	ND	ND	ND	430
	6	April 13, 2024	0	22	170	ND	ND	ND	ND	ND	ND	ND	68
BH24-06	0	April 13, 2024 April 13, 2024	1	1,090 25	1,096	ND ND	ND ND	ND	89 ND	220 ND	89 ND	309	100 7.9
	4	April 13, 2024 April 13, 2024	1	25	ND ND	ND	ND	ND ND	ND ND	ND	ND	ND ND	7.9
	0	April 13, 2024	1	45	155	ND	ND	ND	ND	ND	ND	ND	28
BH24-07	2	April 13, 2024	1	21	ND	ND	ND	ND	ND	ND	ND	ND	5.2
	4	April 13, 2024	1	25	11	ND	ND	ND	ND	ND	ND	ND	7.9
BH24-08	0	April 14, 2024	0	37	369	ND	ND	ND	ND	ND	ND	ND	92
51121 00	2	April 14, 2024	0	21	450	ND	ND	ND	ND	ND	ND	ND	120
BH24-09	0	April 14, 2024	0	35	549	ND	ND	ND	ND	ND	ND	ND	280
	2	April 14, 2024	0	44	243	ND	ND	ND	ND	ND	ND	ND	210
BH24-10	2	April 14, 2024 April 14, 2024	0	-	1,649 972	- ND	- ND	- ND	- ND	- ND	- ND	- ND	650
5112 1 20	4	April 14, 2024	0	32	474	ND	ND	ND	ND	ND	ND	ND	360
DU24.44	0	April 14, 2024	0	44	496	ND	ND	ND	ND	ND	ND	ND	230
BH24-11	2	April 14, 2024	0	51	252	ND	ND	ND	ND	ND	ND	ND	170
	0	April 14, 2024	0	-	2,823	-	-	-	-	-	-	-	-
BH24-12	2	April 14, 2024	0	-	988	ND	ND	ND	ND	ND	ND	ND	620
	4	April 14, 2024	0	65	627	ND	ND	ND	ND	ND	ND	ND	460
BH24-13	0	April 14, 2024 April 14, 2024	0	-	4,240	-	-	-	-	-	-	-	- 1 200
51124-13	4	April 14, 2024 April 14, 2024	0	- 71	2,131 642	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	<b>1,200</b> 470
	0	April 14, 2024	0	25	395	ND	ND	ND	ND	ND	ND	ND	120
BH24-14	2	April 14, 2024	0	52	300	ND	ND	ND	ND	ND	ND	ND	260
BH24-15	0	April 14, 2024	0	27	333	ND	ND	ND	ND	ND	ND	ND	120
01124-13	2	April 14, 2024	0	37	471	ND	ND	ND	ND	ND	ND	ND	200
BH24-16	0	April 25, 2024	-	877	205	-	-	-	-	-	-	-	-
	2	April 25, 2024	-	71	115	-	-	-	-	-	-	-	-
BH24-17	0	April 25, 2024 April 25, 2024	-	246 57	485 105	-	-	-	-	-	-	-	-
	0	April 25, 2024	-	249	205	-	-	-	-	-	-	-	-
BH24-18	2	April 25, 2024	-	104	130	-	-	-	-	-	-	-	-
DU24.40	0	April 25, 2024	-	189	310	-	-	-	-	-	-	-	-
BH24-19	2	April 25, 2024	-	72	138	-		-	-	-			-
BH24-20	0	April 25, 2024	-	180	463	-	-	-	-	-	-	-	-
527 20	2	April 25, 2024	-	58	98	-	-	-	-	-	-	-	-
BH24-21	0	April 25, 2024	-	135	198	-	-	-	-	-	-	-	-
	2	April 25, 2024	-	52	135	-	-	-	-	-	-	-	-



.

Client Name: XTO Energy, Inc Site Name: Big Eddy Unit DI 9 35H NMOCD Tracking #: nAPP2335435491 Project #: 24E-01314 Lab Reports: 885-2895-1, 885-2902-1, and 885-3596-1

	Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs												
Sample Description		Field Screening			Petroleum Hydrocarbons								
			Is			Volatile Extractable							Inorganic
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)
BH24-22	0	April 26, 2024	-	95	205	ND	ND	ND	13	ND	13	13	130
01124 22	2	April 26, 2024	-	32	100	ND	ND	ND	ND	ND	ND	ND	65
BH24-23	0	April 26, 2024	-	374	-	-	-	-	-	-	-	-	-
BH24-24	0	April 26, 2024	-	33	165	ND	ND	ND	ND	ND	ND	ND	570
01124 24	2	April 26, 2024	-	43	50	ND	ND	ND	ND	ND	ND	ND	410
BH24-25	0	April 26, 2024	-	96	154	ND	ND	ND	20	ND	20	20	330
BH24 25	2	April 26, 2024	-	33	70	ND	ND	ND	ND	ND	ND	ND	320
BH24-26	0	April 26, 2024	-	197	-	-	-	-	-	-	-	-	-
BH24-27	0	April 26, 2024	-	68	99	ND	ND	ND	ND	ND	ND	ND	150
D1124 27	2	April 26, 2024	-	42	42	ND	ND	ND	ND	ND	ND	ND	310
BH24-28	0	April 26, 2024	-	277	-	-	-	-	-	-	-	-	-
BH24-29	0	April 26, 2024	-	48	125	ND	ND	ND	ND	ND	ND	ND	320
51124 23	2	April 26, 2024	-	50	70	ND	ND	ND	ND	ND	ND	ND	25
BH24-30	0	April 26, 2024	-	56	140	ND	ND	ND	ND	ND	ND	ND	470
51124 50	2	April 26, 2024	-	20	135	ND	ND	ND	ND	ND	ND	ND	540

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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

.

# **ATTACHMENT 3**



Client:	XTO Energy Inc. (US)	Inspection Date:	4/13/2024
Site Location Name:	Big Eddy Unit DI 9 35H	Report Run Date:	4/14/2024 1:34 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Гimes
Arrived at Site	4/13/2024 8:13 AM		
Departed Site	4/13/2024 5:24 PM		

#### **Field Notes**

- **8:32** Completed Vertex and XTO JSA on arrival. On site to start delineation of release around north wellhead.
- 8:52 Swept sampling areas with magnetic locator prior to ground disturbance.
- **11:15** Advanced boreholes BH24-01 and BH24-02 to attempt vertical delineation of potential deferral area. BH24-01 was located immediately northeast of wellhead with samples collected at 0, 2, and 3.5 feet (refusal depth). BH24-02 was located between wellhead and concrete base of pump jack assembly with samples collected at 0, 2, and 4 feet bgs (refusal depth).
- **19:05** Advanced boreholes BH24-03, BH24-04, and BH24-05 east, south, and west the wellhead, respectively. Samples were collected from BH24-03 and BH24-04 at 0, 2, and 4 feet bgs (or refusal depth). Samples were collected from BH24-05 at 0, 2, 4, and 6 feet bgs, field screening results BH24-05 at 6 feet bgs were below NMOCD strictest criteria.
- **19:08** Advanced boreholes BH24-06 and BH24-07 northwest and northeast of wellhead along edges of pump jack equipment. Collected samples at 0, 2, and 4 feet bgs.
- **19:10** Vertical delineation completed pending laboratory results. Horizontal delineation in progress.

#### **Next Steps & Recommendations**

1 Continue horizontal delineation.



# Site Photos Viewing Direction: West Viewing Image: Constraint of the state of the



South of pump jack base facing south. Advanced BH24-01 immediately northeast of wellhead for delineation of deferral area.





Advanced West of wellhead facing east. Advanced BH23-05 west of wellhead.

Run on 4/14/2024 1:34 AM UTC

BH23-04 south of wellhead.





West of pump jack facing southeast. Advanced BH24-06 immediately north of chemical tank.



East of pump jack facing southwest. Advanced BH24-06 approximately 5 feet east of concrete pad supporting pump jack.



**Daily Site Visit Signature** 

Inspector: Lakin Pullman

Signature:

•



Client:	XTO Energy Inc. (US)	Inspection Date:	4/14/2024
Site Location Name:	Big Eddy Unit DI 9 35H	Report Run Date:	4/15/2024 2:06 AM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	4/14/2024 7:16 AM		
Departed Site	4/14/2024 5:05 PM		

#### **Field Notes**

7:51 Completed JSA on arrival. On site to continue delineation.

**9:31** Mapped infrastructure and proposed deferral request area on collector. Identified additional sampling points, mapped points in Arc Collector, and swept sampling areas with magnetic locator prior to ground disturbance.

- 19:42 Advanced boreholes BH24-08 through BH24-15 to attempt horizontal delineation. Samples were collected at 0 and 2 feet bgs.
- **19:46** Field screening results for samples from BH24-08, BH24-09, BH24-11, BH24-14, and BH24-15 were below strictest criteria for chloride and TPH. Horizontal delineation completed to north pending laboratory results.
- **19:49** Field screening results from BH24-10, BH24-12, and BH24-13 exceeded threshold for chloride. Borehole depths were increased and samples collected at 4 feet bgs to confirm vertical delineation in high karst area.

#### **Next Steps & Recommendations**

1 Continue delineation.



#### **Site Photos**



Run on 4/15/2024 2:06 AM UTC





VERTEX

# **Daily Site Visit Report**

#### Daily Site Visit Signature

Inspector: Lakin Pullman

24 Signature

Signature:

•



Client:	XTO Energy Inc. (US)	Inspection Date:	4/25/2024			
Site Location Name:	Big Eddy Unit DI 9 35H	Report Run Date:	4/25/2024 11:01 PM			
Client Contact Name:	Amy Ruth	API #:				
Client Contact Phone #:	432-661-0571					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
		Summary of T	imes			
Arrived at Site	4/25/2024 10:45 AM					
Departed Site						
	Field Notes					

11:06 On site assed for hazards filled out JSAs received worked authorization from Wes Byrd with XTO

11:34 Began delineation

14:09 Began field screening samples for chlorides and TPH

16:58 All samples were below criteria for Chlorides. All surface samples were well over 150 on TPH

#### Next Steps & Recommendations

**1** Continuation of delineation of release.



# **Site Photos** Viewing Direction: Northeast Viewing Direction: Northeast BH24-16 was collected at surface and 2ft bgs BH24-17 was collected at surface and 2ft bgs just south of BH24-13 Viewing Direction: Northeast Viewing Direction: Northwest next of surface and 20. of acuts of BODA-15 was a BH24-18 was collected southwest of BH24-15 BH24-19 east of BH24-16 and south of BH24at surface and 2ft bgs 12 was collect at surface and 2ft bgs

Run on 4/25/2024 11:01 PM UTC







**Daily Site Visit Signature** 

Inspector: Wyatt Wadleigh

Signature: Wyth

•



Client:	XTO Energy Inc. (US)	Inspection Date:	4/26/2024
Site Location Name:	Big Eddy Unit DI 9 35H	Report Run Date:	4/26/2024 10:02 PM
Client Contact Name:	Amy Ruth	API #:	
Client Contact Phone #:	432-661-0571		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of T	limes
Arrived at Site	4/26/2024 7:36 AM		
Departed Site			
		et al di su a	

#### Field Notes

7:36 Invite field out JSAs gained work authorization from Wes

12:40 Continued delineation

15:15 Samples collected were BH24-22 though 27 samples were field screened at surface

**15:16** After screening BH24-22,24,25,27 were all below criteria at surface. BH24-23,26 were not and needed to be stepped out.

**15:16** BH24-28 was stepped out from Bh24-23 and BH24-29 was from 27. Field screens for 28 were above criteria while 29 was below.

15:17 Collected surface for BH24-30 which was stepped out from Bh24-28. It was clean at surface.

15:17 BH24-22,24,25,27,29,30 were all sampled at surface and 2ft bgs and were all below criteria of field screens and were jarred on site.

#### **Next Steps & Recommendations**

1











**Daily Site Visit Signature** 

Inspector: Wyatt Wadleigh

Signature:

•
## **ATTACHMENT 4**

Received by OCD: 7/3/2024 11:55:04 AM



**Environment Testing** 

#### Page 74 of 206

**ANALYTICAL REPORT** 

## PREPARED FOR

Attn: Ms. Sally Carttar Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 5/6/2024 2:03:16 PM

## JOB DESCRIPTION

Big Eddy Unit DI 9 35H

## **JOB NUMBER**

885-3596-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109





## **Eurofins Albuquerque**

## **Job Notes**

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

#### Authorization

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 5/6/2024 2:03:16 PM

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	18
QC Association Summary	22
Lab Chronicle	25
Certification Summary	29
Chain of Custody	30
Receipt Checklists	31

MQL

NC

ND

NEG

POS

PQL

PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control Page 77 of 206

	Definitions/Glossary		
Client: Vertex Project/Site: B	ig Eddy Unit DI 9 35H	Job ID: 885-3596-1	2
Qualifiers			3
HPLC/IC Qualifier	Qualifier Description		4
F1	MS and/or MSD recovery exceeds control limits.		
Glossary			5
Abbreviation	These commonly used abbreviations may or may not be present in this report.		6
¤	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		8
CNF	Contains No Free Liquid		0
DER	Duplicate Error Ratio (normalized absolute difference)		0
Dil Fac	Dilution Factor		9
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		

**Eurofins Albuquerque** 

#### **Case Narrative**

Job ID: 885-3596-1

Client: Vertex Project: Big Eddy Unit DI 9 35H

## Eurofins Albuquerque

Page 78 of 206

#### Job ID: 885-3596-1

#### Job Narrative 885-3596-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 4/30/2024 7:47 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 4.6°C.

#### Gasoline Range Organics

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

#### GC VOA

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

#### **Diesel Range Organics**

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The <AffectedAnalytBH24-22 0ft (885-3596-1), BH24-22 2ft (885-3596-2), BH24-24 0ft (885-3596-3), BH24-24 2ft (885-3596-4), BH24-25 0ft (885-3596-5), BH24-25 2ft (885-3596-6), BH24-27 0ft (885-3596-7), BH24-27 2ft (885-3596-8), BH24-29 0ft (885-3596-9), BH24-29 2ft (885-3596-10), (885-3596-B-1-B MS) and (885-3596-B-1-C MSD) es> matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-79939 and 880-79939 and analytical batch 880-79961 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 300\_ORGFM\_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-79939 and analytical batch 880-79961 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.

BH24-30 Oft (885-3596-11), BH24-30 2ft (885-3596-12), (885-3596-B-11-B MS) and (885-3596-B-11-C MSD)

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

#### **Client Sample Results**

Job ID: 885-3596-1

## Lab Sample ID: 885-3596-1

Matrix: Solid

Date Collected: 04/26/24 10:00 Date Received: 04/30/24 07:47

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-22 Oft

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/30/24 16:06	05/01/24 12:06	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Xylenes, Total	ND		0.096	mg/Kg		04/30/24 16:06	05/01/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 12:06	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GC	)					
			•					
	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •	Qualifier	<b>RL</b> 9.4	Unit mg/Kg	D	Prepared 05/02/24 11:24	Analyzed 05/02/24 16:33	
Analyte Diesel Range Organics [C10-C28]	Result	Qualifier			<u>D</u>			
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result		9.4	mg/Kg	<u>D</u>	05/02/24 11:24	05/02/24 16:33	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result 13 ND		9.4 47	mg/Kg	<u>D</u>	05/02/24 11:24 05/02/24 11:24	05/02/24 16:33 05/02/24 16:33	1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result 13 ND <i>%Recovery</i> 85	Qualifier	9.4 47 <u>Limits</u> 62 - 134	mg/Kg	<u> </u>	05/02/24 11:24 05/02/24 11:24 <b>Prepared</b>	05/02/24 16:33 05/02/24 16:33 Analyzed	1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Result 13 ND <u>%Recovery</u> 85 Chromatograp	Qualifier	9.4 47 <u>Limits</u> 62 - 134	mg/Kg	<u>D</u>	05/02/24 11:24 05/02/24 11:24 <b>Prepared</b>	05/02/24 16:33 05/02/24 16:33 Analyzed	Dil Fac

Released to Imaging: 7/15/2024 1:34:50 PM

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-22 2ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-2 Matrix: Solid

Date Collected: 04/26/24 10:15 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/30/24 16:06	05/01/24 12:29	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Ethylbenzene	ND		0.049	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Toluene	ND		0.049	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Xylenes, Total	ND		0.098	mg/Kg		04/30/24 16:06	05/01/24 12:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 12:29	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/02/24 11:24	05/02/24 16:57	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/24 11:24	05/02/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surregute			62 - 134			05/02/24 11:24	05/02/24 16:57	1
	90		02 - 734			••••		,
Di-n-octyl phthalate (Surr)		ohy - Solubl						
Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp	o <mark>hy - Solubl</mark> Qualifier		Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-24 0ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-3 Matrix: Solid

Date Collected: 04/26/24 10:45 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/30/24 16:06	05/01/24 12:52	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	l.					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Xylenes, Total	ND		0.097	mg/Kg		04/30/24 16:06	05/01/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/30/24 16:06	05/01/24 12:52	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		05/02/24 11:24	05/02/24 17:21	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/02/24 11:24	05/02/24 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			05/02/24 11:24	05/02/24 17:21	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			5.0	mg/Kg			05/04/24 05:27	1

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-24 2ft

#### **Client Sample Results**

Job ID: 885-3596-1

## Lab Sample ID: 885-3596-4

Matrix: Solid

Date Collected: 04/26/24 11:00 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/30/24 16:06	05/01/24 13:16	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Ethylbenzene	ND		0.050	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Toluene	ND		0.050	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Xylenes, Total	ND		0.099	mg/Kg		04/30/24 16:06	05/01/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	98		39 - 146			04/30/24 16:06	05/01/24 13:16	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diseal Danas Onesise [040,000]						05/02/24 11:24	05/02/24 17:45	
Diesei Range Organics [C10-C28]	ND		9.9	mg/Kg		00/02/21111.21	03/02/24 17.43	1
	ND ND		9.9 50	mg/Kg		05/02/24 11:24	05/02/24 17:45	1
Notor Oil Range Organics [C28-C40]		Qualifier		0 0				Dil Fa
Motor Oil Range Organics [C28-C40]	ND	Qualifier	50	0 0		05/02/24 11:24	05/02/24 17:45	Dil Fa
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND <del>%Recovery</del> 95		50 <u>Limits</u> 62 - 134	0 0		05/02/24 11:24 Prepared	05/02/24 17:45 Analyzed	Dil Fac
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	ND <del>%Recovery</del> 95 Chromatograp		50 <u>Limits</u> 62 - 134	0 0	D	05/02/24 11:24 Prepared	05/02/24 17:45 Analyzed	Dil Fac

Released to Imaging: 7/15/2024 1:34:50 PM

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-25 0ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-5 Matrix: Solid

Date Collected: 04/26/24 11:15 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/30/24 16:06	05/01/24 13:39	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	l.					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Ethylbenzene	ND		0.046	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Toluene	ND		0.046	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Xylenes, Total	ND		0.092	mg/Kg		04/30/24 16:06	05/01/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 13:39	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		8.7	mg/Kg		05/02/24 11:24	05/02/24 18:08	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		05/02/24 11:24	05/02/24 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/02/24 11:24	05/02/24 18:08	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
		o	51		-	Durananal	A se a la sera al	D11 E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 7/15/2024 1:34:50 PM

96-1 9**6-5** Solid

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-25 2ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-6 Matrix: Solid

Date Collected: 04/26/24 11:30 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/30/24 16:06	05/01/24 14:03	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Xylenes, Total	ND		0.097	mg/Kg		04/30/24 16:06	05/01/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 14:03	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/02/24 11:24	05/02/24 18:32	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/24 11:24	05/02/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			05/02/24 11:24	05/02/24 18:32	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
	Desult	Qualifier	RL	11	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer	RL	Unit	U	Frepareu	Analyzeu	DIFAC

Project/Site: Big Eddy Unit DI 9 35H
Client Sample ID: BH24-27 0ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-7 Matrix: Solid

Date Collected: 04/26/24 11:45 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/30/24 16:06	05/01/24 14:26	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Ethylbenzene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Toluene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Xylenes, Total	ND		0.094	mg/Kg		04/30/24 16:06	05/01/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 14:26	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/02/24 11:24	05/02/24 18:56	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/02/24 11:24	05/02/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			05/02/24 11:24	05/02/24 18:56	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
· ····· <b>,</b> ···							· · · · <b>,</b> - · · ·	

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-27 2ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-8 Matrix: Solid

Date Collected: 04/26/24 12:00 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/30/24 16:06	05/01/24 14:50	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Xylenes, Total	ND		0.096	mg/Kg		04/30/24 16:06	05/01/24 14:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/30/24 16:06	05/01/24 14:50	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GC	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		05/02/24 11:24	05/03/24 14:46	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/02/24 11:24	05/03/24 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	100		62 - 134			05/02/24 11:24	05/03/24 14:46	1
Di-n-octyl phthalate (Surr)	100							
		ohy - Solubl	e					
Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp	o <mark>hy - Solubl</mark> Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-29 0ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-9 Matrix: Solid

Date Collected: 04/26/24 12:30 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 244			04/30/24 16:06	05/01/24 15:13	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Ethylbenzene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Toluene	ND		0.047	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Xylenes, Total	ND		0.095	mg/Kg		04/30/24 16:06	05/01/24 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/30/24 16:06	05/01/24 15:13	1
Method: SW846 8015D - Diesel R	Range Organics	(DRO) (GC	)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		05/02/24 11:24	05/03/24 15:09	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		05/02/24 11:24	05/03/24 15:09	1
		Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery							
	% <b>Recovery</b> 96		62 - 134			05/02/24 11:24	05/03/24 15:09	1
Di-n-octyl phthalate (Surr)	96					05/02/24 11:24	05/03/24 15:09	1
	96 Chromatograp			Unit	D	05/02/24 11:24 Prepared	05/03/24 15:09 Analyzed	1 Dil Fac

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-29 2ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-10 Matrix: Solid

Date Collected: 04/26/24 12:45 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/30/24 16:06	05/01/24 16:00	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Ethylbenzene	ND		0.049	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Toluene	ND		0.049	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Xylenes, Total	ND		0.099	mg/Kg		04/30/24 16:06	05/01/24 16:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/30/24 16:06	05/01/24 16:00	1
Method: SW846 8015D - Diesel F	Range Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		05/02/24 11:24	05/03/24 15:33	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/24 11:24	05/03/24 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			05/02/24 11:24	05/03/24 15:33	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2							-	

**Released to Imaging:** 7/15/2024 1:34:50 PM

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-30 0ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-11 Matrix: Solid

Date Collected: 04/26/24 13:00 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/30/24 16:06	05/01/24 16:24	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Xylenes, Total	ND		0.096	mg/Kg		04/30/24 16:06	05/01/24 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/30/24 16:06	05/01/24 16:24	1
Method: SW846 8015D - Diesel R	ange Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		05/02/24 11:24	05/02/24 20:54	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		05/02/24 11:24	05/02/24 20:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	94		62 - 134			05/02/24 11:24	05/02/24 20:54	;
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-30 2ft

#### **Client Sample Results**

Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-12 Matrix: Solid

Date Collected: 04/26/24 13:15 Date Received: 04/30/24 07:47

Client: Vertex

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/30/24 16:06	05/01/24 16:47	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	1					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Ethylbenzene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Toluene	ND		0.048	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Xylenes, Total	ND		0.095	mg/Kg		04/30/24 16:06	05/01/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		39 _ 146			04/30/24 16:06	05/01/24 16:47	1
Method: SW846 8015D - Diesel F	Range Organics	s (DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/02/24 11:24	05/02/24 21:18	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/02/24 11:24	05/02/24 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			05/02/24 11:24	05/02/24 21:18	1
	0	hy - Solubl	0					
Method: EPA 300.0 - Anions, Ion	Chromatograp	illy - Solubi	<b>C</b>					
Method: EPA 300.0 - Anions, Ion Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 885-3596-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-4138/1-	Α									<b>Client S</b>	ample ID: I	Method	Blank
Matrix: Solid											Prep T	ype: To	otal/NA
Analysis Batch: 4186											Pre	p Batch	n: 4138
		MB	MB										
Analyte	R	esult	Qualifier	RL		Uni		D	P	repared	Analyz	ed	Dil Fac
Gasoline Range Organics [C6 - C10]		ND		5.0		mg/	Kg		04/3	0/24 16:06	05/01/24	11:19	
		ΜВ	МВ										
Surrogate	%Reco			Limits					P	repared	Analyz	ed	Dil Fac
4-Bromofluorobenzene (Surr)		97		15 - 244						80/24 16:06			
•													
Lab Sample ID: LCS 885-4138/2	- <b>A</b>							С	lient	Sample	ID: Lab Co		-
Matrix: Solid												ype: To	
Analysis Batch: 4186											Pre	p Batch	n: 4138
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 -				25.0	25.5		mg/Kg			102	70 - 130		
C10]													
	LCS	LCS	;										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	204			15_244									
Lab Sample ID: 885-3596-1 MS										Client	Sample ID		
Matrix: Solid											Prep T	ype: To	otal/NA
Analysis Batch: 4186											Pre	p Batch	n: 4138
	Sample	Sam	ple	Spike	MS	MS					%Rec		
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics [C6 -	ND			23.8	26.7		mg/Kg			112	70 - 130		
C10]													
	MS	MS											
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	220			15 - 244									
Lab Sample ID: 885-3596-1 MSE	)									Client	Sample ID		
Matrix: Solid												ype: To	
Analysis Batch: 4186		-										p Batch	
• • •	Sample		•	Spike		MSD			_		%Rec		RPD
Analyte	Result	Qua		Added		Qualifier			<u> </u>	%Rec	Limits	RPD	Limi
Gasoline Range Organics [C6 - C10]	ND			23.7	27.1		mg/Kg			114	70 - 130	2	20
		MSE											
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	221			15 - 244									
	ganic Co	mpc	ounas (C	<b>5</b> ()									
Aethod: 8021B - Volatile Or	-	mpc	ounas (C	<b>J</b> C)						Client 9	ample ID· I	Method	Blank
Aethod: 8021B - Volatile Or Lab Sample ID: MB 885-4138/1-	-	mpc	ounas (C	JC)						Client S	ample ID: I		
Aethod: 8021B - Volatile Or	-	mpc	ounas (C	30)						Client S	Prep T	Method ype: To p Batch	otal/NA

	MB	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/30/24 16:06	05/01/24 11:19	1
Ethylbenzene	ND		0.050	mg/Kg		04/30/24 16:06	05/01/24 11:19	1
Toluene	ND		0.050	mg/Kg		04/30/24 16:06	05/01/24 11:19	1

Eurofins Albuquerque

Job ID: 885-3596-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-413	8/1-A								Client S	ample ID: N		
Matrix: Solid										Prep Ty	/pe: T	otal/N/
Analysis Batch: 4187										Prep	Batc	h: 413
		MB MB										
Analyte	Re	esult Qualifier	RL		Unit		D	P	repared	Analyze	d	Dil Fa
Xylenes, Total		ND	0.10		mg/K	g		04/3	0/24 16:06	05/01/24 1	1:19	
		MB MB						_				
Surrogate	%Reco								repared	Analyze		Dil Fa
4-Bromofluorobenzene (Surr)		95	39 - 146					04/3	0/24 16:06	05/01/24 1	1:19	
Lab Sample ID: LCS 885-41	38/3-4						С	liont	Sample	ID: Lab Co	ntrol	Samnl
Matrix: Solid	00/0-A							iiciii	Campic	Prep Ty		
Analysis Batch: 4187												h: 413
Analysis Datch. 4107			Spike	LCS	LCS					%Rec	Date	
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Benzene			1.00	1.04		mg/Kg		_	104	70 - 130		
Ethylbenzene			1.00	0.989		mg/Kg			99	70 - 130 70 - 130		
m,p-Xylene			2.00	2.00		mg/Kg			99 100	70 - 130		
o-Xylene			1.00	0.984		mg/Kg			98	70 - 130		
Toluene			1.00	0.982		mg/Kg			98	70 - 130		
Toldelle			1.00	0.302		iiig/itg			30	70 - 150		
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	98		39 - 146									
Matrix: Solid Analysis Batch: 4187										Prep Ty Prep		h: 413
	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene	ND		0.981	1.13		mg/Kg			115	70 - 130		
Ethylbenzene	ND		0.981	1.11		mg/Kg			113	70 - 130		
m,p-Xylene	ND		1.96	2.26		mg/Kg			115	70 - 130		
o-Xylene	ND		0.981	1.11		mg/Kg			113	70 - 130		
Toluene	ND		0.981	1.09		mg/Kg			111	70 - 130		
	MS	Me										
Surragata			Limito									
Surrogate 4-Bromofluorobenzene (Surr)	<b>%Recovery</b> 100	Quaimer	Limits 39 - 146									
4-Bromondorobenzene (Sun)	100		59 - 140									
Lab Sample ID: 885-3596-2	MSD								Client	Sample ID	: BH2	4-22 2f
Matrix: Solid										Prep Ty		
Analysis Batch: 4187												h: 413
,	Sample	Sample	Spike	MSD	MSD					%Rec		RPI
Analyte	•	Qualifier	Added		Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene	ND		0.976	1.08		mg/Kg		_	111	70 - 130	5	
Ethylbenzene	ND		0.976	1.05		mg/Kg			108	70 - 130	5	
m,p-Xylene	ND		1.95	2.11		mg/Kg			108	70 - 130	7	
o-Xylene	ND		0.976	1.04		mg/Kg			107	70 - 130	7	
Toluene	ND		0.976	1.02		mg/Kg			105	70 - 130	6	
			-			0.0					-	
	MSD	MSD										
Surrogate	%Recoverv		Limits									

 Surrogate
 %Recovery
 Qualifier

 4-Bromofluorobenzene (Surr)
 99
 99

**Eurofins Albuquerque** 

Job ID: 885-3596-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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

Matrix: Solid	Α								Client S	ample ID: Prep 1		d Blanl ſotal/NA
Analysis Batch: 4346											p Batc	
Analysis Datch. 4540	,	МВ МВ								110	p Date	
Analyte		sult Qualifie	r	RL	Unit		D	P	repared	Analyz	zed	Dil Fa
Diesel Range Organics [C10-C28]		ND	·	10	mg/K	a			2/24 11:24			
Motor Oil Range Organics [C28-C40]		ND		50	mg/K	•			2/24 11:24			
					5	5						
		MB MB										
Surrogate	%Recov	ery Qualifie					-		repared	Analyz		Dil Fa
Di-n-octyl phthalate (Surr)		95	62 - 13	34				05/0	2/24 11:24	4 05/02/24	15:45	
Lab Sample ID: LCS 885-4253/2	-A						CI	ient	Sample	D: Lab Co	ontrol	Samp
Matrix: Solid											Type: T	
Analysis Batch: 4346											p Batc	
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Diesel Range Organics			50.0	51.4		mg/Kg		_	103	60 - 135		
[C10-C28]												
	LCS L	LCS										
Surrogate	%Recovery 0	Qualifier	Limits									
Di-n-octyl phthalate (Surr)	97		62 - 134									
lethod: 300.0 - Anions, Ion												
Matrix: Solid									Client S	ample ID: Prep		
Matrix: Solid Analysis Batch: 79961	I	MB MB					_			Prep	Type:	Solub
Matrix: Solid Analysis Batch: 79961 <sup>Analyte</sup>	I Res	ult Qualifie		RL	Unit		D		Client S	Prep Analyz	Type: zed	Solubl
Matrix: Solid Analysis Batch: 79961 <sup>Analyte</sup>	I Res			<b>RL</b>	Unit mg/K	g	<u>D</u>			Prep	Type: zed	Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride	Res	ult Qualifie				g		Pi	repared	Prep	<b>Type:</b> zed 04:43	Dil Fa
Matrix: Solid Analysis Batch: 79961 Analyte Chloride	Res	ult Qualifie				g		Pi	repared	Analyz 05/04/24 e ID: Lab Co	Type: zed 04:43 ontrol	Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/ Matrix: Solid	Res	ult Qualifie				a		Pi	repared	Analyz 05/04/24 e ID: Lab Co	Type: zed 04:43 ontrol	Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid	Res	ult Qualifie		5.0		g		Pi	repared	Analyz 05/04/24 e ID: Lab Co	Type: zed 04:43 ontrol	Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid	Res	ult Qualifie		5.0 LCS	mg/K	g Unit		Pi	repared	Analyz 05/04/24 e ID: Lab Co Prep	Type: zed 04:43 ontrol	Dil Fa
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/ Matrix: Solid Analysis Batch: 79961 Analyte	Res	ult Qualifie	Spike	5.0 LCS	LCS	-		Pi	repared Sample	Prep Analyz 05/04/24 Prep %Rec	Type: zed 04:43 ontrol	Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid Analysis Batch: 79961 Analyte Chloride	2-A	ult Qualifie	Spike Added	5.0 LCS Result	LCS	Unit mg/Kg	CI	Pi ient	Sample Sample <u>%Rec</u> 94	Prep Analyz 05/04/24 PID: Lab Co Prep %Rec Limits 90 - 110	Type: zed 04:43 ontrol Type:	Solubi Dil Fa Sampi Solubi
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79938	2-A	ult Qualifie	Spike Added	5.0 LCS Result	LCS	Unit mg/Kg	CI	Pi ient	Sample Sample <u>%Rec</u> 94	Prep Analyz 05/04/24 PID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro	Type: zed 04:43 ontrol Type: DI Sam	Solubi Dil Fa Sampi Solubi
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/3 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79933 Matrix: Solid	2-A	ult Qualifie	Spike Added	5.0 LCS Result	LCS	Unit mg/Kg	CI	Pi ient	Sample Sample <u>%Rec</u> 94	Prep Analyz 05/04/24 PID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro	Type: zed 04:43 ontrol Type: DI Sam	Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/3 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79933 Matrix: Solid	2-A	ult Qualifie	Spike Added 250	5.0 LCS Result 234	LCS Qualifier	Unit mg/Kg	CI	Pi ient	Sample Sample <u>%Rec</u> 94	Prep Analyz 05/04/24 D: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep	Type: zed 04:43 ontrol Type: DI Sam	Solubl Dil Fa Sampl Solubl
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79935 Matrix: Solid Analysis Batch: 79961	2-A	ult Qualifie	Spike Added 250 Spike	5.0 LCS Result 234	LCS Qualifier	Unit mg/Kg	CI	Pi ient  Sam	Sample Sample <u>%Rec</u> 94 sple ID: 1	Prep Analyz 05/04/24 PID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: zed 04:43 ontrol Type: bl Samp Type:	Solubi Dil Fa Sampi Solubi ple Du Solubi RP
Matrix: Solid Analysis Batch: 79961 Chloride Lab Sample ID: LCS 880-79939/ Matrix: Solid Analysis Batch: 79961 Chloride Lab Sample ID: LCSD 880-79939 Matrix: Solid Analysis Batch: 79961 Analysis Batch: 79961	2-A	ult Qualifie	Spike Added 250 Spike Added	5.0 LCS Result 234 LCSD Result	LCS Qualifier	Unit mg/Kg Cl	CI	Pi ient	Sample Sample 94 ple ID: I	Prep Analyz 05/04/24 Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	Type: zed 04:43 ontrol Type: DI Sam	Solubi Dil Fa Sampi Solubi Solubi RP Q
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/ Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79939 Matrix: Solid Analysis Batch: 79961 Analyte	2-A	ult Qualifie	Spike Added 250 Spike	5.0 LCS Result 234	LCS Qualifier	Unit mg/Kg	CI	Pi ient  Sam	Sample Sample <u>%Rec</u> 94 sple ID: 1	Prep Analyz 05/04/24 PID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	Type: zed 04:43 ontrol Type: DI Samp Type: 	Solubi Dil Fa Sampi Solubi Solubi RP QLim
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/ Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79939 Matrix: Solid Analysis Batch: 79961 Analyte Chloride	2-A	ult Qualifie	Spike Added 250 Spike Added	5.0 LCS Result 234 LCSD Result	LCS Qualifier	Unit mg/Kg Cl	CI	Pi ient  Sam	repared         Sample         %Rec         94         ople ID: I         %Rec         94	Prep Analyz 05/04/24 Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	Type: zed 04:43 ontrol Type: DI Samp Type:  RPD 0	Solubl Dil Fa Sampl Solubl Solubl RP D D Lim 2
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79935 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: 885-3596-1 MS	2-A	ult Qualifie	Spike Added 250 Spike Added	5.0 LCS Result 234 LCSD Result	LCS Qualifier	Unit mg/Kg Cl	CI	Pi ient  Sam	repared         Sample         %Rec         94         ople ID: I         %Rec         94	Prep Analyz 05/04/24 Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 t Sample II	Type: 2ed 04:43 ontrol Type: DI Samp Type: RPD 0 D: BH2	Solubi Dil Fa Sampi Solubi ple Du Solubi 0 2 2 4-22 0
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79935 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: 885-3596-1 MS Matrix: Solid	2-A	ult Qualifie	Spike Added 250 Spike Added	5.0 LCS Result 234 LCSD Result	LCS Qualifier	Unit mg/Kg Cl	CI	Pi ient  Sam	repared         Sample         %Rec         94         ople ID: I         %Rec         94	Prep Analyz 05/04/24 Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 t Sample II	Type: 2ed 04:43 ontrol Type: DI Samp Type: RPD 0 D: BH2	Solubi Dil Fa Sample Solubi Solubi Solubi <u>RPi</u> <u>2</u> 24-22 01
Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/3 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79935 Matrix: Solid Analysis Batch: 79961	2-A	ND Qualifie	Spike Added 250 Spike Added	5.0 LCS Result 234 LCSD Result 234	LCS Qualifier	Unit mg/Kg Cl	CI	Pi ient  Sam	repared         Sample         %Rec         94         ople ID: I         %Rec         94	Prep Analyz 05/04/24 Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 t Sample II	Type: 2ed 04:43 ontrol Type: DI Samp Type: RPD 0 D: BH2	Soluble Dil Fac Sample Soluble Ple Dup Soluble RPI D
Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCS 880-79939/2 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: LCSD 880-79935 Matrix: Solid Analysis Batch: 79961 Analyte Chloride Lab Sample ID: 885-3596-1 MS Matrix: Solid	9/3-A	Sample Qualifier	Spike Added 250 Spike Added 250	5.0 LCS Result 234 LCSD Result 234	LCS Qualifier LCSD Qualifier	Unit mg/Kg Cl	CI	Pi ient  Sam	repared         Sample         %Rec         94         ople ID: I         %Rec         94	Prep Analyz 05/04/24 Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 t Sample II Prep	Type: 2ed 04:43 ontrol Type: DI Samp Type: RPD 0 D: BH2	Solubi Dil Fa Sample Solubi Solubi Solubi <u>RPi</u> <u>2</u> 24-22 01

Job ID: 885-3596-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-3596-1 MSD								Clien	t Sample II	D: BH24	-22 Oft
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 79961											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	130	F1	249	343	F1	mg/Kg		84	90 - 110	0	20
Lab Sample ID: 885-3596-11 MS								Clien	t Sample II	D: BH24	-30 Oft
Matrix: Solid									Prep	Type: Se	oluble
Analysis Batch: 79961											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	470	F1	248	677	F1	mg/Kg		85	90 _ 110		
Lab Sample ID: 885-3596-11 MSD								Clien	t Sample II	D: BH24	-30 Oft
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 79961											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	470	F1	248	687	F1	mg/Kg		89	90 - 110	1	20

Eurofins Albuquerque

#### **QC** Association Summary

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Prep Batch: 4138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	5030C	
885-3596-2	BH24-22 2ft	Total/NA	Solid	5030C	
885-3596-3	BH24-24 0ft	Total/NA	Solid	5030C	
885-3596-4	BH24-24 2ft	Total/NA	Solid	5030C	
885-3596-5	BH24-25 0ft	Total/NA	Solid	5030C	
885-3596-6	BH24-25 2ft	Total/NA	Solid	5030C	
885-3596-7	BH24-27 0ft	Total/NA	Solid	5030C	
885-3596-8	BH24-27 2ft	Total/NA	Solid	5030C	
885-3596-9	BH24-29 0ft	Total/NA	Solid	5030C	
885-3596-10	BH24-29 2ft	Total/NA	Solid	5030C	
885-3596-11	BH24-30 0ft	Total/NA	Solid	5030C	
885-3596-12	BH24-30 2ft	Total/NA	Solid	5030C	
MB 885-4138/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4138/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4138/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-3596-1 MS	BH24-22 0ft	Total/NA	Solid	5030C	
885-3596-1 MSD	BH24-22 0ft	Total/NA	Solid	5030C	
885-3596-2 MS	BH24-22 2ft	Total/NA	Solid	5030C	
885-3596-2 MSD	BH24-22 2ft	Total/NA	Solid	5030C	

#### Analysis Batch: 4186

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	8015D	4138
885-3596-2	BH24-22 2ft	Total/NA	Solid	8015D	4138
885-3596-3	BH24-24 0ft	Total/NA	Solid	8015D	4138
885-3596-4	BH24-24 2ft	Total/NA	Solid	8015D	4138
885-3596-5	BH24-25 0ft	Total/NA	Solid	8015D	4138
885-3596-6	BH24-25 2ft	Total/NA	Solid	8015D	4138
885-3596-7	BH24-27 0ft	Total/NA	Solid	8015D	4138
885-3596-8	BH24-27 2ft	Total/NA	Solid	8015D	4138
885-3596-9	BH24-29 0ft	Total/NA	Solid	8015D	4138
885-3596-10	BH24-29 2ft	Total/NA	Solid	8015D	4138
885-3596-11	BH24-30 0ft	Total/NA	Solid	8015D	4138
885-3596-12	BH24-30 2ft	Total/NA	Solid	8015D	4138
MB 885-4138/1-A	Method Blank	Total/NA	Solid	8015D	4138
LCS 885-4138/2-A	Lab Control Sample	Total/NA	Solid	8015D	4138
885-3596-1 MS	BH24-22 0ft	Total/NA	Solid	8015D	4138
885-3596-1 MSD	BH24-22 0ft	Total/NA	Solid	8015D	4138

#### Analysis Batch: 4187

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	8021B	4138
885-3596-2	BH24-22 2ft	Total/NA	Solid	8021B	4138
885-3596-3	BH24-24 0ft	Total/NA	Solid	8021B	4138
885-3596-4	BH24-24 2ft	Total/NA	Solid	8021B	4138
885-3596-5	BH24-25 0ft	Total/NA	Solid	8021B	4138
885-3596-6	BH24-25 2ft	Total/NA	Solid	8021B	4138
885-3596-7	BH24-27 0ft	Total/NA	Solid	8021B	4138
885-3596-8	BH24-27 2ft	Total/NA	Solid	8021B	4138
885-3596-9	BH24-29 0ft	Total/NA	Solid	8021B	4138
885-3596-10	BH24-29 2ft	Total/NA	Solid	8021B	4138

#### Eurofins Albuquerque

Page 95 of 206

Job ID: 885-3596-1

#### **QC Association Summary**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### GC VOA (Continued)

#### Analysis Batch: 4187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-11	BH24-30 0ft	Total/NA	Solid	8021B	4138
885-3596-12	BH24-30 2ft	Total/NA	Solid	8021B	4138
MB 885-4138/1-A	Method Blank	Total/NA	Solid	8021B	4138
LCS 885-4138/3-A	Lab Control Sample	Total/NA	Solid	8021B	4138
885-3596-2 MS	BH24-22 2ft	Total/NA	Solid	8021B	4138
885-3596-2 MSD	BH24-22 2ft	Total/NA	Solid	8021B	4138

#### GC Semi VOA

#### Prep Batch: 4253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	SHAKE	
885-3596-2	BH24-22 2ft	Total/NA	Solid	SHAKE	
885-3596-3	BH24-24 0ft	Total/NA	Solid	SHAKE	
885-3596-4	BH24-24 2ft	Total/NA	Solid	SHAKE	
885-3596-5	BH24-25 0ft	Total/NA	Solid	SHAKE	
885-3596-6	BH24-25 2ft	Total/NA	Solid	SHAKE	
885-3596-7	BH24-27 0ft	Total/NA	Solid	SHAKE	
885-3596-8	BH24-27 2ft	Total/NA	Solid	SHAKE	
885-3596-9	BH24-29 0ft	Total/NA	Solid	SHAKE	
885-3596-10	BH24-29 2ft	Total/NA	Solid	SHAKE	
885-3596-11	BH24-30 0ft	Total/NA	Solid	SHAKE	
885-3596-12	BH24-30 2ft	Total/NA	Solid	SHAKE	
MB 885-4253/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4253/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

#### Analysis Batch: 4346

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Total/NA	Solid	8015D	4253
885-3596-2	BH24-22 2ft	Total/NA	Solid	8015D	4253
885-3596-3	BH24-24 0ft	Total/NA	Solid	8015D	4253
885-3596-4	BH24-24 2ft	Total/NA	Solid	8015D	4253
885-3596-5	BH24-25 0ft	Total/NA	Solid	8015D	4253
885-3596-6	BH24-25 2ft	Total/NA	Solid	8015D	4253
885-3596-7	BH24-27 0ft	Total/NA	Solid	8015D	4253
885-3596-11	BH24-30 0ft	Total/NA	Solid	8015D	4253
885-3596-12	BH24-30 2ft	Total/NA	Solid	8015D	4253
MB 885-4253/1-A	Method Blank	Total/NA	Solid	8015D	4253
LCS 885-4253/2-A	Lab Control Sample	Total/NA	Solid	8015D	4253

#### Analysis Batch: 4408

Lab Sample ID Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-8 BH24-27 2ft	Total/NA	Solid	8015D	4253
885-3596-9 BH24-29 0ft	Total/NA	Solid	8015D	4253
885-3596-10 BH24-29 2ft	Total/NA	Solid	8015D	4253

#### HPLC/IC

#### Leach Batch: 79939

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
885-3596-1	BH24-22 0ft	Soluble	Solid	DI Leach	
885-3596-2	BH24-22 2ft	Soluble	Solid	DI Leach	

#### **Eurofins Albuquerque**

#### Job ID: 885-3596-1

#### **QC** Association Summary

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### HPLC/IC (Continued)

#### Leach Batch: 79939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3596-3	BH24-24 0ft	Soluble	Solid	DI Leach	
885-3596-4	BH24-24 2ft	Soluble	Solid	DI Leach	
885-3596-5	BH24-25 0ft	Soluble	Solid	DI Leach	
885-3596-6	BH24-25 2ft	Soluble	Solid	DI Leach	
885-3596-7	BH24-27 0ft	Soluble	Solid	DI Leach	
885-3596-8	BH24-27 2ft	Soluble	Solid	DI Leach	
885-3596-9	BH24-29 0ft	Soluble	Solid	DI Leach	
885-3596-10	BH24-29 2ft	Soluble	Solid	DI Leach	
885-3596-11	BH24-30 0ft	Soluble	Solid	DI Leach	
885-3596-12	BH24-30 2ft	Soluble	Solid	DI Leach	
MB 880-79939/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79939/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79939/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-3596-1 MS	BH24-22 0ft	Soluble	Solid	DI Leach	
885-3596-1 MSD	BH24-22 0ft	Soluble	Solid	DI Leach	
885-3596-11 MS	BH24-30 0ft	Soluble	Solid	DI Leach	
885-3596-11 MSD	BH24-30 0ft	Soluble	Solid	DI Leach	

#### Analysis Batch: 79961

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-3596-1	BH24-22 Oft	Soluble	Solid	300.0	79939
885-3596-2	BH24-22 2ft	Soluble	Solid	300.0	79939
885-3596-3	BH24-24 Oft	Soluble	Solid	300.0	79939
885-3596-4	BH24-24 2ft	Soluble	Solid	300.0	79939
885-3596-5	BH24-25 0ft	Soluble	Solid	300.0	79939
885-3596-6	BH24-25 2ft	Soluble	Solid	300.0	79939
885-3596-7	BH24-27 0ft	Soluble	Solid	300.0	79939
885-3596-8	BH24-27 2ft	Soluble	Solid	300.0	79939
885-3596-9	BH24-29 Oft	Soluble	Solid	300.0	79939
885-3596-10	BH24-29 2ft	Soluble	Solid	300.0	79939
885-3596-11	BH24-30 Oft	Soluble	Solid	300.0	79939
885-3596-12	BH24-30 2ft	Soluble	Solid	300.0	79939
MB 880-79939/1-A	Method Blank	Soluble	Solid	300.0	79939
LCS 880-79939/2-A	Lab Control Sample	Soluble	Solid	300.0	79939
LCSD 880-79939/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79939
885-3596-1 MS	BH24-22 Oft	Soluble	Solid	300.0	79939
885-3596-1 MSD	BH24-22 Oft	Soluble	Solid	300.0	79939
885-3596-11 MS	BH24-30 0ft	Soluble	Solid	300.0	79939
885-3596-11 MSD	BH24-30 0ft	Soluble	Solid	300.0	79939

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-22 Oft Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-1 Matrix: Solid

Lab Sample ID: 885-3596-2

Lab Sample ID: 885-3596-3

Lab Sample ID: 885-3596-4

Matrix: Solid

Matrix: Solid

Date Collected: 04/26/24 10:00 Date Received: 04/30/24 07:47

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 12:06
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 12:06
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 16:33
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:02

#### Client Sample ID: BH24-22 2ft

Date Collected: 04/26/24 10:15 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 12:29
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 12:29
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 16:57
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:21

#### Client Sample ID: BH24-24 Oft

#### Date Collected: 04/26/24 10:45 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 12:52
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
lotal/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 12:52
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 17:21
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:27

#### Client Sample ID: BH24-24 2ft Date Collected: 04/26/24 11:00

#### Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 13:16

**Eurofins Albuquerque** 

Matrix: Solid

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-24 2ft Job ID: 885-3596-1

#### Lab Sample ID: 885-3596-4 Matrix: Solid

Date Collected: 04/26/24 11:00 Date Received: 04/30/24 07:47

**Client: Vertex** 

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 13:16
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 17:45
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:33

#### Client Sample ID: BH24-25 Oft Date Collected: 04/26/24 11:15 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 13:39
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 13:39
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 18:08
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 05:40

#### Client Sample ID: BH24-25 2ft Date Collected: 04/26/24 11:30 Date Received: 04/30/24 07:47

Batch Batch Dilution Prepared Batch Method Prep Type Туре Run Factor Number Analyst Lab or Analyzed Total/NA 5030C JP EET ALB 04/30/24 16:06 Prep 4138 Total/NA 8015D 05/01/24 14:03 Analysis 1 4186 JP EET ALB Total/NA 5030C EET ALB 04/30/24 16:06 Prep 4138 JP 8021B 4187 JP 05/01/24 14:03 Total/NA Analysis EET ALB 1 Total/NA SHAKE 4253 JU EET ALB 05/02/24 11:24 Prep Total/NA 8015D EET ALB 05/02/24 18:32 Analysis JU 1 4346 05/03/24 13:25 Soluble Leach DI Leach 79939 SA EET MID 79961 SMC EET MID 05/04/24 05:59 Soluble Analysis 300.0 1

#### Client Sample ID: BH24-27 Oft Date Collected: 04/26/24 11:45

Date Collected: 04/26/24 11:45 Date Received: 04/30/24 07:47

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 14:26
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 14:26

#### Lab Sample ID: 885-3596-5

Lab Sample ID: 885-3596-6

Lab Sample ID: 885-3596-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

#### **Eurofins Albuquerque**

Released to Imaging: 7/15/2024 1:34:50 PM

Job ID: 885-3596-1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 885-3596-7

Lab Sample ID: 885-3596-8

## Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-27 Oft Date Collected: 04/26/24 11:45

Date Received: 04/30/24 07:47

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 18:56
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:05

#### Client Sample ID: BH24-27 2ft Date Collected: 04/26/24 12:00 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 14:50
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 14:50
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4408	JU	EET ALB	05/03/24 14:46
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:11

#### Client Sample ID: BH24-29 Oft Date Collected: 04/26/24 12:30

Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 15:13
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 15:13
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4408	JU	EET ALB	05/03/24 15:09
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:17

#### Client Sample ID: BH24-29 2ft

Date Collected: 04/26/24 12:45 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 16:00
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 16:00
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4408	JU	EET ALB	05/03/24 15:33

#### Lab Sample ID: 885-3596-9 Matrix: Solid

Lab Sample ID: 885-3596-10 Matrix: Solid

Eurofins Albuquerque

#### Lab Chronicle

Job ID: 885-3596-1

Matrix: Solid

#### Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-29 2ft Date Collected: 04/26/24 12:45

Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:24

#### Client Sample ID: BH24-30 Oft

Date Collected: 04/26/24 13:00 Date Received: 04/30/24 07:47

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 16:24
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 16:24
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 20:54
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:30

#### Client Sample ID: BH24-30 2ft Date Collected: 04/26/24 13:15 Date Received: 04/30/24 07:47

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8015D		1	4186	JP	EET ALB	05/01/24 16:47
Total/NA	Prep	5030C			4138	JP	EET ALB	04/30/24 16:06
Total/NA	Analysis	8021B		1	4187	JP	EET ALB	05/01/24 16:47
Total/NA	Prep	SHAKE			4253	JU	EET ALB	05/02/24 11:24
Total/NA	Analysis	8015D		1	4346	JU	EET ALB	05/02/24 21:18
Soluble	Leach	DI Leach			79939	SA	EET MID	05/03/24 13:25
Soluble	Analysis	300.0		1	79961	SMC	EET MID	05/04/24 06:49

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

#### Lab Sample ID: 885-3596-11 Matrix: Solid

Lab Sample ID: 885-3596-12

Matrix: Solid

Lab Sample ID: 885-3596-10

8

Project/Site: Big Eddy Unit DI 9 35H

Laboratory: Eurofins Albuquerque

for which the agency does not offer certification.

Prep Method

5030C

SHAKE

SHAKE

5030C

5030C

5030C

5030C

#### **Accreditation/Certification Summary**

Identification Number

Gasoline Range Organics [C6 - C10]

Motor Oil Range Organics [C28-C40]

Diesel Range Organics [C10-C28]

NM9425, NM0901

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

NM100001

Expiration Date

02-26-25

02-26-25

# Job ID: 885-3596-1

5

9

8015D 8021B 8021B

Analysis Method

8015D

8015D

8021B

8021B

Oregon

**Client: Vertex** 

Authority

New Mexico

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.

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	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
			-

#### Laboratory: Eurofins Midland

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

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

Program

State

NELAP

Authority		am	Identification Number	Expiration Date	
Texas	NELA	P	T104704400-23-26	06-30-24	
The following enclytee	are included in this report by	ut the leheratory is not cortif	ind by the any aming outhority. This liv	t may include an alyter	
0,	1 /	it the laboratory is not certif	ied by the governing authority. This list	st may include analytes	
0,	are included in this report, bu bes not offer certification.	It the laboratory is not certif	ied by the governing authority. This lis	st may include analytes	
0,	1 /	it the laboratory is not certif Matrix	ied by the governing authority. This lis Analyte	st may include analytes	

Hall ENVIRONMENTAL       HALL ENVIRONMENTAL       HALL ENVIRONMENTAL       ANALYSIS LABOR       www.hallenvironmental.com       4901 Hawvins NE - Albuqueroue. NM 8710f       Tel 505-345-3975       Fax 505-345-4107	81EX / MT8E / TM8's (\$021) 8061 Peshoides/8082 PC8's 8061 Peshoides/8082 PC8's PPA45 by 8310 of 82/05IMS 8061 Peshoides/8082 PC8's 8061 Peshoides/8082 PC8's 8061 Peshoides/8082 PC8's 8061 Peshoides/8082 PC8's 8061 Peshoides/8082 PC8's						Time Remarks Please CC wwadie gh@vertex ca AfG Cost conter Number 1140681001 1-me 1-me 1-me 1-me
1 66 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RIEX / MIBE / TM8's (8021) 816X / MIBE / TM8's (8021) 816X / MIBE / TM8's (8021) 8161 Peshcides/8082 PC8's	·· — —	+-+	┞──┽──┼─	××××	<	me Remarks AfG Cost conte 1-1-1-1- H
Turn-Around Time Ž Standard BigE Project Name BigE Project # 01314	Project Mana Sampler: Wy On Ice: # of Goolers: Contarner Type and #	1, 402 Jar 1, 402 Jar	1. 402 Jar 1. 402 Jar	1, 402 Jar	, 402 Jar 1, 402 Jar 402 Jar	402 jar 1 402 jar 1 402 jar	Recoverd ay Via Recoverd by Via Recoverd by Via
Chain-of-Custody Record Vertex (XTO) g Address On File	artiar@vertex.ca C. Leve. 4 (Full Val.dation) C. Az Compliance C. Other Matrix Sample Name	B⊭24-22 0 ft BH24-22 2 ft	BH24-24 0ft BH24-24 2ft	BH24-25 0ft BH24-25 2ft BH24-25 2ft	6H24-27 2ft 6H24-27 2ft 6H24-29 0ft 6H24-29 2ft	BH24-30 0f BH24-30 2f	Reinquished by Wysti Wadle gh Reinquished by MALLALALALA
Client Vertex (XTO) Mailing Address On File	± ÿ	0 Soil 5 Soil	┥ ┥ -	┢╍╷╴┝╸	━┼╍┽┼┼	6 0 00 80 80	Reinquisned by Reinquisne
Client Vertex (XTO) Client Vertex (XTO) Mailing Address On	Email or Fax#' Si OAVOC Package C: Standard Accreditation C: ECD (Type)	24 10 00 24 10 15				24 12 45 24 13 00 28 13 15	-f −f'
Client Mailing	email or Fext email or Fext Covoc Packa Covoc Packa Accreditation Covoc Packa Accreditation Date Tin Date Tin	04/25/24 04.25/24	C4:25/24 C4:26/24	C4/26/24 C4/25/24	04-26-24 04-26-24 04-26-24 24-126-24		Date Date



#### Login Sample Receipt Checklist

Client: Vertex

#### Login Number: 3596 List Number: 1 Creator: Casarrubias, Tracy

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

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

11

## Job Number: 885-3596-1

List Source: Eurofins Albuquerque

#### Login Sample Receipt Checklist

Client: Vertex

<6mm (1/4").

Login Number: 3596 List Number: 2 Creator: Rodriguez, Leticia

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

Received by OCD: 7/3/2024 11:55:04 AM



**Environment Testing** 

#### Page 106 of 206

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ms. Sally Carter Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 4/23/2024 7:52:53 AM

## JOB DESCRIPTION

Big Eddy Unit DI 9 35H

## **JOB NUMBER**

885-2895-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109





## **Eurofins Albuquerque**

### **Job Notes**

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

#### Authorization

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/23/2024 7:52:53 AM

Page 108 of 206

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	26
QC Association Summary	31
Lab Chronicle	36
Certification Summary	43
Chain of Custody	44
Receipt Checklists	46
## **Definitions/Glossary**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H Job ID: 885-2895-1

Qualifiers		_ 3
GC VOA		
Qualifier S1+	Qualifier Description	4
	Surrogate recovery exceeds control limits, high biased.	
GC Semi VO		5
Qualifier D	Qualifier Description	
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.	0
S1-	Surrogate recovery exceeds control limits, low biased.	7
Glossary		_
Abbreviation	These commonly used abbreviations may or may not be present in this report.	8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	_
%R	Percent Recovery	9
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	

Page 110 of 206

Client: Vertex Project: Big Eddy Unit DI 9 35H

#### Eurofins Albuquerque

#### Job ID: 885-2895-1

#### Job Narrative 885-2895-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to
  demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
  method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 4/16/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

#### Gasoline Range Organics

Method 8015D\_GRO: Internal standard responses were outside of acceptance limits for the following samples: BH24-01 0' (885-2895-1), (885-2895-A-1-B MS ^2) and (885-2895-A-1-C MSD ^2). The sample(s) shows evidence of matrix interference.

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 following samples were diluted due to the nature of the sample matrix: BH24-01 0' (885-2895-1) and BH24-02 0' (885-2895-4). Elevated reporting limits (RLs) are provided.

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

#### HPLC/IC

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

Eurofins Albuquerque

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-01 0' Date Collected: 04/13/24 09:00 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasol	ine Range	Organics	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	51		9.7	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	332	S1+	15 - 244			04/17/24 12:10	04/19/24 00:03	2
_ Method: SW846 8021B - Volatil	e Organic	Compoun	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.048	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Ethylbenzene	ND		0.097	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Toluene	ND		0.097	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Xylenes, Total	0.81		0.19	mg/Kg		04/17/24 12:10	04/19/24 00:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/17/24 12:10	04/19/24 00:03	2
_ Method: SW846 8015D - Diese	Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4900		170	mg/Kg		04/17/24 14:47	04/18/24 16:01	20
Motor Oil Range Organics	2600		870	mg/Kg		04/17/24 14:47	04/18/24 16:01	20
[C28-C40]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			04/17/24 14:47	04/18/24 16:01	20
_ Method: EPA 300.0 - Anions, Io	on Chromat	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		25	mg/Kg			04/20/24 02:48	5

Page 111 of 206

5

Job ID: 885-2895-1

Matrix: Solid

Lab Sample ID: 885-2895-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-01 2' Date Collected: 04/13/24 09:10 Date Received: 04/16/24 07:55

Chloride

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

550

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 15:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		15 - 244			04/17/24 12:10	04/18/24 15:27	
Method: SW846 8021B - Volati	le Organic	Compour	nds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 15:27	
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 15:27	
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 15:27	
Xylenes, Total	ND		0.094	mg/Kg		04/17/24 12:10	04/18/24 15:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 15:27	
Method: SW846 8015D - Diese	I Range Or	ganics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	240		9.6	mg/Kg		04/17/24 14:47	04/18/24 16:25	
Motor Oil Range Organics [C28-C40]	150		48	mg/Kg		04/17/24 14:47	04/18/24 16:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	98		62 - 134			04/17/24 14:47	04/18/24 16:25	
-								
_ Method: EPA 300.0 - Anions, Io	on Chroma	tography	- Soluble					

5.0

mg/Kg

Job ID: 885-2895-1

## JUN ID. 000-2095-1

#### Lab Sample ID: 885-2895-2 Matrix: Solid

**Eurofins Albuquerque** 

04/20/24 03:02

1

**Released to Imaging:** 7/15/2024 1:34:50 PM

5

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-01 3.5' Date Collected: 04/13/24 09:20 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	<b>Organics</b>	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 15:50	1
	le Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Ethylbenzene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Toluene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Xylenes, Total	ND		0.10	mg/Kg		04/17/24 12:10	04/18/24 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 15:50	1
_ Method: SW846 8015D - Diese	I Range Or	ganics (DF	RO) (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		9.4	mg/Kg		04/17/24 14:47	04/18/24 16:38	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:47	04/18/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			04/17/24 14:47	04/18/24 16:38	1
	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90		5.0	mg/Kg			04/20/24 03:07	1

Job ID: 885-2895-1

## Lab Sample ID: 885-2895-3

Matrix: Solid

5

Page 113 of 206

**Eurofins Albuquerque** 

Job ID: 885-2895-1

Matrix: Solid

Lab Sample ID: 885-2895-4

#### Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-02 0' Date Collected: 04/13/24 09:25 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	13		9.2	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156		15 - 244			04/17/24 12:10	04/18/24 16:14	2
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.046	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Ethylbenzene	ND		0.092	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Toluene	ND		0.092	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Xylenes, Total	ND		0.18	mg/Kg		04/17/24 12:10	04/18/24 16:14	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			04/17/24 12:10	04/18/24 16:14	2
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	5100		180	mg/Kg		04/17/24 14:47	04/18/24 16:13	20
Motor Oil Range Organics [C28-C40]	2000		880	mg/Kg		04/17/24 14:47	04/18/24 16:13	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	0	S1- D	62 - 134			04/17/24 14:47	04/18/24 16:13	20
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2100		25	mg/Kg			04/20/24 03:12	5

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-02 2' Date Collected: 04/13/24 09:30 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc	oline Range	Organics (	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/17/24 12:10	04/18/24 16:37	1
_ Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 16:37	1
- Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		04/17/24 14:47	04/18/24 16:50	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/17/24 14:47	04/18/24 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			04/17/24 14:47	04/18/24 16:50	1
			Colubio					
Method: EPA 300.0 - Anions,	Ion Chroma	tograpny -	soluble					
Method: EPA 300.0 - Anions, Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Page 115 of 206

5

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-5 Matrix: Solid

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-02 4' Date Collected: 04/13/24 09:35 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	Organics	(GRO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 17:00	1
	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Ethylbenzene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Toluene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Xylenes, Total	ND		0.10	mg/Kg		04/17/24 12:10	04/18/24 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 17:00	1
		ganics (DF				04/17/24 12:10	04/18/24 17:00	1
4-Bromofluorobenzene (Surr) 	el Range Or	ganics (DF Qualifier		Unit	D	04/17/24 12:10 Prepared	04/18/24 17:00	1 Dil Fac
 Method: SW846 8015D - Diese	el Range Or	-	RO) (GC)	Unit mg/Kg	D			1 Dil Fac
 Method: SW846 8015D - Diese Analyte	el Range Or Result	-	RO) (GC) RL		<u>D</u>	Prepared	Analyzed	1 Dil Fac 1 1
Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28]	el Range Or Result	Qualifier	<b>RO) (GC)</b> <u>RL</u> <u>9.4</u>	mg/Kg	<u> </u>	Prepared 04/17/24 14:47	Analyzed 04/18/24 17:02	1 Dil Fac 1 1 Dil Fac
Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	el Range Or Result ND ND	Qualifier	<b>RO) (GC)</b> <u>RL</u> 9.4 47	mg/Kg	<u>D</u>	Prepared 04/17/24 14:47 04/17/24 14:47	Analyzed 04/18/24 17:02 04/18/24 17:02	1 1
Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	el Range Or Result ND ND %Recovery 99	Qualifier Qualifier	RO) (GC)         RL         9.4         47         Limits         62 - 134	mg/Kg	<u>D</u>	Prepared 04/17/24 14:47 04/17/24 14:47 Prepared	Analyzed 04/18/24 17:02 04/18/24 17:02 Analyzed	1 1
Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	el Range Or Result ND %Recovery 99	Qualifier Qualifier	RO) (GC)         RL         9.4         47         Limits         62 - 134	mg/Kg	<u>D</u>	Prepared 04/17/24 14:47 04/17/24 14:47 Prepared	Analyzed 04/18/24 17:02 04/18/24 17:02 Analyzed	1 1

Matrix: Solid

#### Job ID: 885-2895-1

Lab Sample ID: 885-2895-6

**Eurofins Albuquerque** 

Released to Imaging: 7/15/2024 1:34:50 PM

Page 116 of 206 5

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-03 2' Date Collected: 04/13/24 11:35 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	Organics (	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 17:24	1
	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Ethylbenzene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Toluene	ND		0.050	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Xylenes, Total	ND		0.10	mg/Kg		04/17/24 12:10	04/18/24 17:24	1
Surrogate	%Recovery	Qualifiar	Limits			Prepared	Analyzed	Dil Fac
Junoyale	/arrecovery	Quaimer	Linns			Frepareu	Analyzeu	Dirrac
4-Bromofluorobenzene (Surr)	83	Quaimer	<u> </u>			04/17/24 12:10		1
4-Bromofluorobenzene (Surr)	83		39 - 146					<u>1</u>
	83 el Range Org		39 - 146	Unit	D			Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese	83 el Range Org	ganics (DF	39 - 146 RO) (GC)	Unit mg/Kg	D	04/17/24 12:10	04/18/24 17:24	1
4-Bromofluorobenzene (Surr) 	83 el Range Or Result	ganics (DF	39 - 146 RO) (GC) RL		D	04/17/24 12:10 Prepared	04/18/24 17:24 Analyzed	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28]	83 el Range Or Result ND	<mark>ganics (DF</mark> Qualifier	39 - 146 RO) (GC) RL 9.8	mg/Kg	<u>D</u>	04/17/24 12:10 Prepared 04/17/24 14:47	04/18/24 17:24 Analyzed 04/18/24 17:14	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	83 El Range Or Result ND ND	<mark>ganics (DF</mark> Qualifier	39 - 146       RO) (GC)       RL       9.8       49	mg/Kg	<u>D</u>	04/17/24 12:10 Prepared 04/17/24 14:47 04/17/24 14:47	04/18/24 17:24 Analyzed 04/18/24 17:14 04/18/24 17:14	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	83 El Range Or Result ND ND %Recovery 116	ganics (DF Qualifier Qualifier	39 - 146         RO) (GC)         RL         9.8         49         Limits         62 - 134	mg/Kg	<u>D</u>	04/17/24 12:10  Prepared 04/17/24 14:47 04/17/24 14:47 Prepared	04/18/24 17:24 Analyzed 04/18/24 17:14 04/18/24 17:14 Analyzed	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	83 el Range Or Result ND ND %Recovery 116 on Chroma	ganics (DF Qualifier Qualifier	39 - 146         RO) (GC)         RL         9.8         49         Limits         62 - 134	mg/Kg	D	04/17/24 12:10  Prepared 04/17/24 14:47 04/17/24 14:47 Prepared	04/18/24 17:24 Analyzed 04/18/24 17:14 04/18/24 17:14 Analyzed	1 Dil Fac 1 1

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-7 Matrix: Solid

**Eurofins Albuquerque** 

Released to Imaging: 7/15/2024 1:34:50 PM

5

RL

Unit

D

Prepared

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-03 4 Date Collected: 04/13/24 11:40 Date Received: 04/16/24 07:55

Analyte

Eurofins Albuquerque

ay	Unit DI 9 35H
D:	BH24-03 4'

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

Result Qualifier

Analyte	Result	Quaimer	RL	Unit	U	Frepareu	Analyzeu	DIFAC
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 17:47	1
 Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		39 - 146			04/17/24 12:10	04/18/24 17:47	1
	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/17/24 14:47	04/18/24 17:26	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 14:47	04/18/24 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			04/17/24 14:47	04/18/24 17:26	1
	lon Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		5.0	mg/Kg			04/20/24 03:41	1

Job ID: 885-2895-1

Matrix: Solid

Dil Fac

5

# Lab Sample ID: 885-2895-8

Analyzed

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-04 2' Date Collected: 04/13/24 12:05 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/17/24 12:10	04/18/24 18:34	1
Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Xylenes, Total	ND		0.094	mg/Kg		04/17/24 12:10	04/18/24 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 18:34	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/17/24 14:47	04/18/24 17:39	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:47	04/18/24 17:39	1
						Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			i i opui ou		
	%Recovery 99	Qualifier	Limits 62 - 134			04/17/24 14:47	04/18/24 17:39	1
Di-n-octyl phthalate (Surr)	99		62 - 134					1
Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	99 Ion Chroma		62 - 134	Unit	D			1 Dil Fac

**Eurofins Albuquerque** 

Page 119 of 206

5

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-9 Matrix: Solid

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-04 3' Date Collected: 04/13/24 12:10 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	<b>Organics</b>	(GRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/17/24 12:10	04/18/24 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 18:58	1
Method: SW846 8021B - Volati	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 18:58	1
Ethylbenzene	ND		0.048	mg/Kg		04/17/24 12:10	04/18/24 18:58	1
Toluene	ND		0.048	mg/Kg		04/17/24 12:10	04/18/24 18:58	1
Xylenes, Total	ND		0.096	mg/Kg		04/17/24 12:10	04/18/24 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 82	Qualifier	Limits 39 - 146			Prepared 04/17/24 12:10		Dil Fac 1
4-Bromofluorobenzene (Surr)	82		39 - 146					Dil Fac
	82 I Range Or		39 - 146	Unit	D			Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese	82 I Range Or	ganics (DF	39 - 146 RO) (GC)	<mark>Unit</mark>	D	04/17/24 12:10	04/18/24 18:58	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte	82 el Range Org Result	ganics (DF	39 - 146 RO) (GC) RL		<u>D</u>	04/17/24 12:10 Prepared	04/18/24 18:58 Analyzed 04/18/24 17:51	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28]	el Range Org Result	ganics (DF Qualifier	39 - 146           RO) (GC)           RL           9.0	mg/Kg	D	04/17/24 12:10  Prepared 04/17/24 14:47	04/18/24 18:58 Analyzed 04/18/24 17:51	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	82 I Range Or Result 13 ND	ganics (DF Qualifier	39 - 146       RO) (GC)       RL       9.0       45	mg/Kg	<u>D</u>	04/17/24 12:10  Prepared 04/17/24 14:47 04/17/24 14:47	04/18/24 18:58 Analyzed 04/18/24 17:51 04/18/24 17:51	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	82 el Range Or Result 13 ND %Recovery 102	ganics (DF Qualifier Qualifier	39 - 146         RO) (GC)         RL         9.0         45         Limits         62 - 134	mg/Kg	<u> </u>	04/17/24 12:10  Prepared 04/17/24 14:47 04/17/24 14:47 Prepared	04/18/24 18:58 Analyzed 04/18/24 17:51 04/18/24 17:51 Analyzed	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	82 el Range Or Result 13 ND %Recovery 102 on Chroma	ganics (DF Qualifier Qualifier	39 - 146         RO) (GC)         RL         9.0         45         Limits         62 - 134	mg/Kg	D	04/17/24 12:10  Prepared 04/17/24 14:47 04/17/24 14:47 Prepared	04/18/24 18:58 Analyzed 04/18/24 17:51 04/18/24 17:51 Analyzed	1 Dil Fac 1 1

#### **Eurofins Albuquerque**

Page 120 of 206

Job ID: 885-2895-1

Matrix: Solid

5

# Lab Sample ID: 885-2895-10

RL

4.6

RL

0.023

0.046

0.046

0.092

RL

8.5

42

RL

5.0

Limits

Limits

62 - 134

39 - 146

Limits

15 - 244

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

D

D

D

D

Prepared

Prepared

Prepared

Prepared

Prepared

Prepared

04/17/24 14:47

Prepared

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-05 0' Date Collected: 04/13/24 12:40 Date Received: 04/16/24 07:55

Gasoline Range Organics [C6 - C10]

4-Bromofluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

Diesel Range Organics [C10-C28]

Di-n-octyl phthalate (Surr)

Motor Oil Range Organics [C28-C40]

Analyte

Surrogate

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surrogate

Analyte

Surrogate

Analyte

Chloride

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

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

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

**Result Qualifier** 

**Result Qualifier** 

Qualifier

Qualifier

Qualifier

ND

104

ND

ND

ND

ND

84

ND

ND

105

75

**Result Qualifier** 

**Result Qualifier** 

%Recovery

%Recovery

%Recovery

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-11 Matrix: Solid

04/17/24 12:10 04/18/24 19:21

04/17/24 12:10 04/18/24 19:21

04/17/24 12:10 04/18/24 19:21

04/17/24 12:10 04/18/24 19:21

04/17/24 12:10 04/18/24 19:21

04/17/24 12:10 04/18/24 19:21

04/17/24 12:10 04/18/24 19:21

04/17/24 14:47 04/18/24 18:03

04/17/24 14:47 04/18/24 18:03

Analyzed

Analyzed

Analyzed

Analyzed

Analyzed

Analyzed

04/18/24 18:03

Analyzed

04/19/24 16:13

Dil Fac

1

1

1

1

1

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-05 2' Date Collected: 04/13/24 12:45 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/17/24 12:10	04/18/24 19:45	1
Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Xylenes, Total	ND		0.093	mg/Kg		04/17/24 12:10	04/18/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 19:45	1
Method: SW846 8015D - Dies	el Range Or	ganics (DI	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		04/17/24 14:47	04/18/24 18:15	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/17/24 14:47	04/18/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Junoyale			62 - 134			04/17/24 14:47	04/18/24 18:15	1
	106		02 - 754			•		•
Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions,		tography -						

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310	5.0	mg/Kg	·		04/19/24 16:18	1

5

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-12 Matrix: Solid

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-05 4' Date Collected: 04/13/24 12:50 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/17/24 12:10	04/18/24 20:08	1
Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Xylenes, Total	ND		0.099	mg/Kg		04/17/24 12:10	04/18/24 20:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/17/24 12:10	04/18/24 20:08	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		04/17/24 14:47	04/18/24 18:28	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/17/24 14:47	04/18/24 18:28	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	/0110001019					04/17/24 14.47	04/40/04 40:00	
	104		62 - 134			04/11/24 14.47	04/18/24 18:28	1
Di-n-octyl phthalate (Surr)	104	tography -				04/11/24 14.47	04/18/24 18:28	1
Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	104 Ion Chroma	tography - Qualifier		Unit	D	Prepared	Analyzed	7 Dil Fac

Job ID: 885-2895-1

Matrix: Solid

5

Lab Sample ID: 885-2895-13

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-05 6' Date Collected: 04/13/24 15:30 Date Received: 04/16/24 07:55

Released to Imaging: 7/15/2024 1:34:50 PM	Page 19 of 47
Keleuseu lo Imaging: //15/2024 1:54:50 FM	

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-14 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 20:31	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Xylenes, Total	ND		0.099	mg/Kg		04/17/24 12:10	04/18/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 20:31	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		04/17/24 14:47	04/18/24 18:40	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		04/17/24 14:47	04/18/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			04/17/24 14:47	04/18/24 18:40	1
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
· ····· <b>/</b> ···								

## \_\_\_\_\_

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-06 0' Date Collected: 04/13/24 12:55 Date Received: 04/16/24 07:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/17/24 12:10	04/18/24 20:55	1
_ Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Xylenes, Total	ND		0.095	mg/Kg		04/17/24 12:10	04/18/24 20:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 20:55	1
_ Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	89		8.8	mg/Kg		04/17/24 14:47	04/18/24 18:52	1
Motor Oil Range Organics [C28-C40]	220		44	mg/Kg		04/17/24 14:47	04/18/24 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	82		62 - 134			04/17/24 14:47	04/40/04 40.50	

	Method: EPA 300.0 - Anions, lo	on Chromat	tography - S	Soluble					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	100		5.0	mg/Kg			04/19/24 16:42	1

Page 20 of 47

Job ID: 885-2895-1

# Lab Sample ID: 885-2895-15

Matrix: Solid

Page 125 of 206

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-06 2' Date Collected: 04/13/24 13:05 Date Received: 04/16/24 07:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 21:42	1
Method: SW846 8021B - Volati	le Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Xylenes, Total	ND		0.094	mg/Kg		04/17/24 12:10	04/18/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 21:42	1
Method: SW846 8015D - Diese	Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.4	mg/Kg		04/17/24 14:47	04/18/24 19:04	1
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		04/17/24 14:47	04/18/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/17/24 14:47	04/18/24 19:04	1
Method: EPA 300.0 - Anions, Io	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		5.0	mg/Kg			04/19/24 16:47	1

Page 126 of 206

Job ID: 885-2895-1

Matrix: Solid

5

Lab Sample ID: 885-2895-16

RL

4.7

Unit

mg/Kg

D

Prepared

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-06 4' Date Collected: 04/13/24 13:10 Date Received: 04/16/24 07:55

Gasoline Range Organics [C6 - C10]

Analyte

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

Result Qualifier

ND

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			04/17/24 12:10	04/18/24 22:05	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Ethylbenzene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Toluene	ND		0.047	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Xylenes, Total	ND		0.095	mg/Kg		04/17/24 12:10	04/18/24 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 22:05	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/17/24 14:47	04/18/24 19:16	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 14:47	04/18/24 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			04/17/24 14:47	04/18/24 19:16	1
Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		5.0	mg/Kg			04/19/24 16:52	1

Matrix: Solid

Dil Fac

1

Page 127 of 206

#### Job ID: 885-2895-1

Lab Sample ID: 885-2895-17

04/17/24 12:10 04/18/24 22:05

Analyzed

#### **Eurofins Albuquerque**

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-07 0' Date Collected: 04/13/24 13:20 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	Organics (	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 22:29	1
Method: SW846 8021B - Volati	le Organic	Compound	de (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	<u></u>		04/17/24 12:10	04/18/24 22:29	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Xylenes, Total	ND		0.097	mg/Kg		04/17/24 12:10	04/18/24 22:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 22:29	1
Method: SW846 8015D - Diese	l Range Or	nanics (DE						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		04/17/24 14:47	04/18/24 19:29	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 14:47	04/18/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			04/17/24 14:47	04/18/24 19:29	1
 Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		5.0	mg/Kg			04/19/24 16:57	1

Matrix: Solid

Lab Sample ID: 885-2895-18

Page 128 of 206

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-07 2' Date Collected: 04/13/24 13:25 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc		-			_	- ·		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			04/17/24 12:10	04/18/24 23:16	1
Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/17/24 12:10	04/18/24 23:16	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/17/24 14:52	04/18/24 19:41	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 14:52	04/18/24 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			04/17/24 14:52	04/18/24 19:41	1
Method: EPA 300.0 - Anions, I	Ion Chroma	tography -	Soluble					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer		Onit		riepareu	Analyzeu	Dirrac

Page 129 of 206

5

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-19 Matrix: Solid

**Eurofins Albuquerque** 

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-07 4' Date Collected: 04/13/24 13:30 Date Received: 04/16/24 07:55

Chloride

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/17/24 12:10	04/18/24 23:39	1
_ Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Ethylbenzene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Toluene	ND		0.049	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Xylenes, Total	ND		0.098	mg/Kg		04/17/24 12:10	04/18/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		39 - 146			04/17/24 12:10	04/18/24 23:39	1
	el Range Or	ganics (DI	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/17/24 14:52	04/18/24 19:53	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 14:52	04/18/24 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			04/17/24 14:52	04/18/24 19:53	1
_ Method: EPA 300.0 - Anions, I		tography -	- Soluble					

5.0

mg/Kg

7.9

Job ID: 885-2895-1

## Lab Sample ID: 885-2895-20

04/19/24 17:16

1

Matrix: Solid

5

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H Page 131 of 206

Job ID: 885-2895-1

Analyte	_	sult Qualifie	r RL		Unit		DF	Prepared	Analyzed	Dil F
Analysis Batch: 3575		МВ МВ							Prep Bat	
₋ab Sample ID: MB 885-3 Matrix: Solid	449/1-A						Cli	ent Samp	ole ID: Metho Prep Type:	
ethod: 8021B - Volat	ile Organio	c Compoi	unds (GC)							
-Bromofluorobenzene (Surr)		S1+	15 - 244							
Surrogate	%Recovery		Limits							
210]	MSD	MSD								
Gasoline Range Organics [C6 -	51		24.1	71.7		mg/Kg		87	70 - 130	10
Analyte	Sample Result	Qualifier	Spike Added		Qualifier	Unit	D	%Rec	%Rec Limits RF	R D Liı
Analysis Batch: 3574	Sampla	Sampla	Spiko	Med	MSD				Prep Bat	
.ab Sample ID: 885-2895- /atrix: Solid	1 MSD							Client Sa	ample ID: BH Prep Type: `	
		57+	15 - 244							
Surrogate -Bromofluorobenzene (Surr)	%Recovery	Qualifier S1+	Limits							
	MS									
Gasoline Range Organics [C6 - C10]	51		24.2	79.1		mg/Kg		110	70 - 130	
nalyte	<b>Result</b> 51	Qualifier	Added	Result 79.1	Qualifier	Unit	D	% <b>Rec</b>	Limits	
···· <b>,</b> ··· ····	Sample	Sample	Spike	MS	MS				%Rec	
Analysis Batch: 3574									Prep Type: Prep Bate	
ab Sample ID: 885-2895	-1 MS							<b>Client Sa</b>	ample ID: BH	
-Bromofluorobenzene (Surr)	215		15 - 244							
urrogate	%Recovery	Qualifier	Limits							
	LCS	LCS								
asoline Range Organics [C6 - 10]			25.0	25.9		mg/Kg		103	70 - 130	
nalyte			Added		Qualifier	Unit	D		Limits	
Analysis Batch: 3574			Spike	LCS	LCS				%Rec	511. 34
Aatrix: Solid									Prep Type: Prep Bate	
ab Sample ID: LCS 885-	3449/2-A					Clie	nt Sa	mple ID:	Lab Control	Samp
-Bromofluorobenzene (Surr)		104	15 - 244				04/	17/24 12:10	04/18/24 14:40	)
Surrogate	%Reco	very Qualifie						Prepared	Analyzed	Dill
		MB MB								
Gasoline Range Organics [C6 - C		ND Contraction	5.0		mg/K			•	04/18/24 14:40	
Analyte	Re	MB MB sult Qualifie	r RL		Unit		DF	Prepared	Analyzed	Dil I
Analysis Batch: 3574									Prep Bat	ch: 34
Matrix: Solid									Prep Type:	Total/I
	449/1-A						CII	ent Sam	ole ID: Metho	od Bla

Analyte	Result	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		04/17/24 12:10	04/18/24 14:40	1
Ethylbenzene	ND	0.050	mg/Kg		04/17/24 12:10	04/18/24 14:40	1
Toluene	ND	0.050	mg/Kg		04/17/24 12:10	04/18/24 14:40	1

**Eurofins Albuquerque** 

Page 132 of 206

		QC	Sample	Resi	ults				
lient: Vertex roject/Site: Big Eddy Unit [	DI 9 35H							Job ID: 88	5-2895-1
lethod: 8021B - Volat	tile Organic	Compou	nds (GC)	(Cont	inued)				
Lab Sample ID: MB 885-3	3449/1-A						Client Samp	ole ID: Metho	d Blank
Matrix: Solid								Prep Type:	Total/NA
Analysis Batch: 3575								Prep Bate	ch: 3449
-		MB MB							
Analyte	Re	sult Qualifier	RL	<u>_</u>	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total		ND	0.10	0	mg/K	g	04/17/24 12:10	04/18/24 14:40	0 1
<b>-</b> .		MB MB							
Surrogate	%Recov	Qualifier	Limits	_			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		81	39 - 146				04/17/24 12:10	04/18/24 14:40	0 1
Lab Sample ID: LCS 885-	3449/3-4					Clien	t Sample ID:	Lab Control	Sample
Matrix: Solid	-5445/5-14					Ollen	t Sample ID.	Prep Type:	
Analysis Batch: 3575								Prep Bate	
maiyoio Datoli. 0010			Spike	1.05	LCS			%Rec	
Analyte			Added		Qualifier	Unit	D %Rec	Limits	
Benzene			1.00	0.843		mg/Kg	$-\frac{D}{84}$	70 - 130	
Ethylbenzene			1.00	0.873		mg/Kg	87	70 - 130 70 - 130	
m,p-Xylene			2.00	1.75		mg/Kg	87	70 - 130	
o-Xylene			2.00	0.857		mg/Kg	86	70 - 130 70 - 130	
Toluene			1.00	0.857		mg/Kg	85	70 - 130 70 - 130	
			1.00	0.040		iiig/r\y	00	70-130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	86		39 - 146						
Lab Sample ID: 885-2895	-2 MS						Client Sa	ample ID: BH	
Matrix: Solid								Prep Type:	
Analysis Batch: 3575	_	<b>.</b> .						Prep Bat	ch: 3449
	Sample	•	Spike		MS			%Rec	
Analyte		Qualifier	Added		Qualifier	Unit	<u>D</u> %Rec	Limits	
Benzene	ND		0.937	0.833		mg/Kg	89	70 - 130	
Ethylbenzene	ND		0.937	0.873		mg/Kg	93	70 - 130	
m,p-Xylene	ND		1.87	1.74		mg/Kg	92	70 - 130	
o-Xylene	ND		0.937	0.866		mg/Kg	91	70 - 130	
Toluene	ND		0.937	0.858		mg/Kg	92	70 - 130	
	MS	MS							
Surrogate	M3 %Recovery		Limits						
4-Bromofluorobenzene (Surr)	86		39 - 146						
	00		55 - 140						
Lab Sample ID: 885-2895	-2 MSD						Client Sa	ample ID: BH	24-01 2
Matrix: Solid								Prep Type:	
Analysis Batch: 3575								Prep Bate	
-	Sample	Sample	Spike	MSD	MSD			%Rec	RPD
Analyte		Qualifier	Added	Result	Qualifier	Unit	D %Rec	Limits RF	PD Limit
Benzene	ND		0.938	0.838		mg/Kg	89	70 - 130	1 20
Ethylbenzene	ND		0.938	0.879		mg/Kg	94	70 - 130	1 20
m,p-Xylene	ND		1.88	1.77		mg/Kg	94	70 - 130	2 20
o-Xylene	ND		0.938	0.872		mg/Kg	91	70 - 130	1 20
Toluene	ND		0.938	0.862		mg/Kg	92	70 - 130	0 20
						55			
	MSD								
Surrogate	%Recovery	Qualifier	Limits						
Dromofluorohonzono (Curr)	0.0		20 116						

%Recovery Qualifier Surrogate 4-Bromofluorobenzene (Surr) 83

**Eurofins Albuquerque** 

39 - 146

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-3455 Matrix: Solid	// 1- <del>/</del> 4							Cile	ant Samp	ole ID: Metho Prep Type:		
Analysis Batch: 3573										Prep Bat		
,		ΜВ	МВ									
Analyte	Re	sult	Qualifier	RL		Unit	D	Р	repared	Analyzed	I	Dil Fa
Diesel Range Organics [C10-C28]	_	ND		10		mg/K	g	04/1	7/24 14:47	04/18/24 15:3	6 —	
Motor Oil Range Organics [C28-C40]		ND		50	I	mg/K	g	04/1	7/24 14:47	04/18/24 15:3	6	
			MD									
Surragata	% Baaa		MB Qualifier	Limito					ranarad	Analyzed		Dil Fa
Surrogate Di-n-octyl phthalate (Surr)	%Reco	104	Quaimer	<i>Limits</i> 62 - 134					Prepared	04/18/24 15:3		DIIFa
		101		02 - 70 7				0 11 1	<i>1724 14.41</i>	01/10/27 10:0	•	
Lab Sample ID: LCS 885-345	5/2-A						Clien	it Sa	mple ID:	Lab Contro	l Sa	ampl
Matrix: Solid										Prep Type:	Tot	al/N
Analysis Batch: 3573										Prep Bat	ch:	345
				Spike	LCS	LCS				%Rec		
Analyte				Added		Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]				50.0	59.8		mg/Kg		120	60 - 135		
	LCS	LCS	;									
Surrogate %	6Recovery	Qua	lifier	Limits								
Di-n-octyl phthalate (Surr)	111			62 - 134								
Analysis Batch: 3573	Sample	Sam	ple	Spike	MS	MS				Prep Bat %Rec	ch:	345
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	ND			49.5	45.0		mg/Kg		91	44 - 136		
	MS	мs										
Surrogate %	&Recovery	Qua	lifier	Limits								
Di-n-octyl phthalate (Surr)	93			62 - 134								
Lab Sample ID: 885-2895-20 Matrix: Solid Analysis Batch: 3573	MSD								Client Sa	ample ID: Bł Prep Type: Prep Bat	Tot	al/N 345
	Sample		•	Spike		MSD				%Rec		RP
Analyte	Result	Qua	lifier	Added		Qualifier	Unit	D	%Rec		PD	Lim
Diesel Range Organics [C10-C28]	ND			44.8	39.3		mg/Kg		88	44 - 136	13	3
	MSD	MSL	0									
	6Recovery	Qua	lifier	Limits								
Di-n-octyl phthalate (Surr)	93			62 - 134								

Lab Sample ID: MB 880-78727/1-/ Matrix: Solid	4					Client Sam	ple ID: Methoo Prep Type: \$	
Analysis Batch: 78768								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/19/24 15:39	1

Job ID: 885-2895-1

Page 134 of 206

Job ID: 885-2895-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-7 Matrix: Solid	78727/2-A					Clier	nt Sai	mple ID	: Lab Cor Prep Ty		
Analysis Batch: 78768											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	245		mg/Kg		98	90 - 110		
Lab Sample ID: LCSD 880	-78727/3-A				c	lient Sa	mple	ID: Lat	Control		
Matrix: Solid									Prep Ty	ype: So	bluble
Analysis Batch: 78768			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	_	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride			250	245		mg/Kg		98	90 - 110	0	20
Lab Sample ID: 885-2895-	9 MS							Client S	Sample ID	: BH24	-04 2
Matrix: Solid									Prep Ty		
Analysis Batch: 78768											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	290		252	545		mg/Kg		100	90 - 110		
Lab Sample ID: 885-2895- Matrix: Solid	9 MSD							Client S	Sample ID Prep Ty		
Analysis Batch: 78768											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte Chloride	290	Qualifier	Added 252	Result 547	Qualifier	Unit mg/Kg	D	%Rec 101	Limits	<b>RPD</b>	Limi 20
Matrix: Solid Analysis Batch: 78768		<b>.</b> .							Prep Ty	ype: So	DIUDIO
	-	Sample	Spike	-	MS				%Rec		
A sea b sta				D 14			-		1		
	Result		Added		Qualifier	Unit	D	%Rec	Limits		
	Result		249	Result 249	Qualifier	mg/Kg	<u>D</u>	98	Limits 90 - 110		
Analyte Chloride Lab Sample ID: 885-2895- Matrix: Solid	5.2				Qualifier			98	90 - 110 Sample ID		
Chloride Lab Sample ID: 885-2895- Matrix: Solid	5.2				Qualifier			98	90 - 110		
Chloride Lab Sample ID: 885-2895-	5.2 19 MSD	Sample		249	Qualifier MSD			98	90 - 110 Sample ID		oluble
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768	5.2 19 MSD Sample		249	249 MSD				98	90 - 110 Sample ID Prep Ty		RPE
Chloride Lab Sample ID: 885-2895- Matrix: Solid	5.2 19 MSD Sample	Sample	249 Spike	249 MSD	MSD	mg/Kg		98 Client S	90 - 110 Sample ID Prep Ty %Rec	ype: So	RPC Limi
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride	5.2 19 MSD Sample Result 5.2	Sample	249 Spike Added	249 MSD Result	MSD	mg/Kg Unit	D	98 Client S <u>%Rec</u> 98	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110	ype: So <u> </u>	RPE Limi
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte	5.2 19 MSD Sample Result 5.2	Sample	249 Spike Added	249 MSD Result	MSD	mg/Kg Unit	D	98 Client S <u>%Rec</u> 98	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 aple ID: M	ype: So RPD 0 ethod I	RPE Limi 20 Blank
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid	5.2 19 MSD Sample Result 5.2	Sample	249 Spike Added	249 MSD Result	MSD	mg/Kg Unit	D	98 Client S <u>%Rec</u> 98	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110	ype: So RPD 0 ethod I	RPE Limi 20 Blank
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78	5.2 19 MSD Sample Result 5.2	Sample	249 Spike Added	249 MSD Result	MSD	mg/Kg Unit	D	98 Client S <u>%Rec</u> 98	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 aple ID: M	ype: So RPD 0 ethod I	RPE Limi 20 Blank
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid	5.2 <b>19 MSD</b> Sample <u>Result</u> 5.2 8728/1-A	Sample Qualifier	249 Spike Added	249 MSD Result	MSD	mg/Kg Unit	D Clie	98 Client S <u>%Rec</u> 98	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 aple ID: M	ype: So <u>RPD</u> 0 ethod I ype: So	RPD Limit 20 Blank
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid Analysis Batch: 78802	5.2 <b>19 MSD</b> Sample <u>Result</u> 5.2 8728/1-A	Sample Qualifier	249 Spike Added	249 MSD Result 248	MSD Qualifier	mg/Kg Unit mg/Kg	D Clie	98 Client S <u>%Rec</u> 98 ent Sam	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 ople ID: M Prep Ty	ype: So <u>RPD</u> 0 ethod I ype: So zed	RPC Limit 20 Blank
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid Analysis Batch: 78802 Analyte	5.2 <b>19 MSD</b> <b>Sample</b> <b>Result</b> 5.2 <b>8728/1-A</b> <b>Re</b>	Sample Qualifier MB MB esult Qualifier	249 Spike Added	249 MSD Result 248	MSD Qualifier Unit	Unit mg/Kg mg/Kg	D Clie	98 Client S <u>%Rec</u> 98 ent Sam	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 pple ID: M Prep Ty  Analyz 04/20/24 : Lab Cor	RPD         0         ethod I         ype: Sc         zed         02:33	Blank Dil Fac
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid Analysis Batch: 78802 Analyte Chloride Lab Sample ID: LCS 880-7 Matrix: Solid	5.2 <b>19 MSD</b> <b>Sample</b> <b>Result</b> 5.2 <b>8728/1-A</b> <b>Re</b>	Sample Qualifier MB MB esult Qualifier	249 Spike Added	249 MSD Result 248	MSD Qualifier Unit	Unit mg/Kg mg/Kg	D Clie	98 Client S <u>%Rec</u> 98 ent Sam	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 aple ID: M Prep Ty Analyz 04/20/24	RPD         0         ethod I         ype: Sc         zed         02:33	Elank Dil Fac
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid Analysis Batch: 78802 Analyte Chloride Lab Sample ID: LCS 880-7	5.2 <b>19 MSD</b> <b>Sample</b> <b>Result</b> 5.2 <b>8728/1-A</b> <b>Re</b>	Sample Qualifier MB MB esult Qualifier	249 Spike Added	249 MSD Result 248 5.0	MSD Qualifier Unit	Unit mg/Kg mg/Kg	D Clie	98 Client S <u>%Rec</u> 98 ent Sam	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 pple ID: M Prep Ty  Analyz 04/20/24 : Lab Cor	RPD         0         ethod I         ype: Sc         zed         02:33	Elank Dil Fac
Chloride Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78768 Analyte Chloride Lab Sample ID: MB 880-78 Matrix: Solid Analysis Batch: 78802 Analyte Chloride Lab Sample ID: LCS 880-7 Matrix: Solid	5.2 <b>19 MSD</b> <b>Sample</b> <b>Result</b> 5.2 <b>8728/1-A</b> <b>Re</b>	Sample Qualifier MB MB esult Qualifier	249 Spike Added 249	249 MSD Result 248 5.0 LCS	MSD Qualifier Unit mg/K	Unit mg/Kg mg/Kg	D Clie	98 Client S <u>%Rec</u> 98 ent Sam	90 - 110 Sample ID Prep Ty %Rec Limits 90 - 110 ple ID: M Prep Ty  Analyz 04/20/24 : Lab Cor Prep Ty	RPD         0         ethod I         ype: Sc         zed         02:33	Elank Dil Fac

**Eurofins Albuquerque** 

Page 135 of 206

Job ID: 885-2895-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 78802	-78728/3-A				C	Client Sa	mple	ID: Lal	o Control Prep T		
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	252		mg/Kg		101	90 - 110	0	20
Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78802	1 MS							Client \$	Sample ID Prep Ty		
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1900		1260	3290		mg/Kg		108	90 - 110		
Lab Sample ID: 885-2895- Matrix: Solid Analysis Batch: 78802	1 MSD							Client S	Sample ID Prep T		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1900		1260	3290		mg/Kg		107	90 - 110	0	20

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H Page 136 of 206

Job ID: 885-2895-1

# 5 6 7 8

Prep Batch: 3449
I ah Sample ID

GC VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-2895-1	BH24-01 0'	Total/NA	Solid	5030C	
885-2895-2	BH24-01 2'	Total/NA	Solid	5030C	
885-2895-3	BH24-01 3.5'	Total/NA	Solid	5030C	
885-2895-4	BH24-02 0'	Total/NA	Solid	5030C	
885-2895-5	BH24-02 2'	Total/NA	Solid	5030C	
885-2895-6	BH24-02 4'	Total/NA	Solid	5030C	
885-2895-7	BH24-03 2'	Total/NA	Solid	5030C	
885-2895-8	BH24-03 4'	Total/NA	Solid	5030C	
885-2895-9	BH24-04 2'	Total/NA	Solid	5030C	
885-2895-10	BH24-04 3'	Total/NA	Solid	5030C	
885-2895-11	BH24-05 0'	Total/NA	Solid	5030C	
385-2895-12	BH24-05 2'	Total/NA	Solid	5030C	
385-2895-13	BH24-05 4'	Total/NA	Solid	5030C	
385-2895-14	BH24-05 6'	Total/NA	Solid	5030C	
385-2895-15	BH24-06 0'	Total/NA	Solid	5030C	
385-2895-16	BH24-06 2'	Total/NA	Solid	5030C	
885-2895-17	BH24-06 4'	Total/NA	Solid	5030C	
885-2895-18	BH24-07 0'	Total/NA	Solid	5030C	
385-2895-19	BH24-07 2'	Total/NA	Solid	5030C	
385-2895-20	BH24-07 4'	Total/NA	Solid	5030C	
MB 885-3449/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3449/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3449/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-2895-1 MS	BH24-01 0'	Total/NA	Solid	5030C	
885-2895-1 MSD	BH24-01 0'	Total/NA	Solid	5030C	
885-2895-2 MS	BH24-01 2'	Total/NA	Solid	5030C	
885-2895-2 MSD	BH24-01 2'	Total/NA	Solid	5030C	

#### Analysis Batch: 3574

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	8015D	3449
885-2895-2	BH24-01 2'	Total/NA	Solid	8015D	3449
885-2895-3	BH24-01 3.5'	Total/NA	Solid	8015D	3449
885-2895-4	BH24-02 0'	Total/NA	Solid	8015D	3449
885-2895-5	BH24-02 2'	Total/NA	Solid	8015D	3449
885-2895-6	BH24-02 4'	Total/NA	Solid	8015D	3449
885-2895-7	BH24-03 2'	Total/NA	Solid	8015D	3449
885-2895-8	BH24-03 4'	Total/NA	Solid	8015D	3449
885-2895-9	BH24-04 2'	Total/NA	Solid	8015D	3449
885-2895-10	BH24-04 3'	Total/NA	Solid	8015D	3449
885-2895-11	BH24-05 0'	Total/NA	Solid	8015D	3449
885-2895-12	BH24-05 2'	Total/NA	Solid	8015D	3449
885-2895-13	BH24-05 4'	Total/NA	Solid	8015D	3449
885-2895-14	BH24-05 6'	Total/NA	Solid	8015D	3449
885-2895-15	BH24-06 0'	Total/NA	Solid	8015D	3449
885-2895-16	BH24-06 2'	Total/NA	Solid	8015D	3449
885-2895-17	BH24-06 4'	Total/NA	Solid	8015D	3449
885-2895-18	BH24-07 0'	Total/NA	Solid	8015D	3449
885-2895-19	BH24-07 2'	Total/NA	Solid	8015D	3449
885-2895-20	BH24-07 4'	Total/NA	Solid	8015D	3449
MB 885-3449/1-A	Method Blank	Total/NA	Solid	8015D	3449

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### GC VOA (Continued)

#### Analysis Batch: 3574 (Continued)

Lab Sample ID LCS 885-3449/2-A	Client Sample ID Lab Control Sample	Prep Type Total/NA	Matrix Solid	Method 8015D	Prep Batch 3449
885-2895-1 MS	BH24-01 0'	Total/NA	Solid	8015D	3449
885-2895-1 MSD	BH24-01 0'	Total/NA	Solid	8015D	3449

#### Analysis Batch: 3575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	8021B	3449
885-2895-2	BH24-01 2'	Total/NA	Solid	8021B	3449
885-2895-3	BH24-01 3.5'	Total/NA	Solid	8021B	3449
885-2895-4	BH24-02 0'	Total/NA	Solid	8021B	3449
885-2895-5	BH24-02 2'	Total/NA	Solid	8021B	3449
885-2895-6	BH24-02 4'	Total/NA	Solid	8021B	3449
885-2895-7	BH24-03 2'	Total/NA	Solid	8021B	3449
885-2895-8	BH24-03 4'	Total/NA	Solid	8021B	3449
885-2895-9	BH24-04 2'	Total/NA	Solid	8021B	3449
885-2895-10	BH24-04 3'	Total/NA	Solid	8021B	3449
885-2895-11	BH24-05 0'	Total/NA	Solid	8021B	3449
885-2895-12	BH24-05 2'	Total/NA	Solid	8021B	3449
885-2895-13	BH24-05 4'	Total/NA	Solid	8021B	3449
885-2895-14	BH24-05 6'	Total/NA	Solid	8021B	3449
885-2895-15	BH24-06 0'	Total/NA	Solid	8021B	3449
885-2895-16	BH24-06 2'	Total/NA	Solid	8021B	3449
885-2895-17	BH24-06 4'	Total/NA	Solid	8021B	3449
885-2895-18	BH24-07 0'	Total/NA	Solid	8021B	3449
885-2895-19	BH24-07 2'	Total/NA	Solid	8021B	3449
885-2895-20	BH24-07 4'	Total/NA	Solid	8021B	3449
MB 885-3449/1-A	Method Blank	Total/NA	Solid	8021B	3449
LCS 885-3449/3-A	Lab Control Sample	Total/NA	Solid	8021B	3449
885-2895-2 MS	BH24-01 2'	Total/NA	Solid	8021B	3449
885-2895-2 MSD	BH24-01 2'	Total/NA	Solid	8021B	3449

#### GC Semi VOA

#### Prep Batch: 3455

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	SHAKE	
885-2895-2	BH24-01 2'	Total/NA	Solid	SHAKE	
885-2895-3	BH24-01 3.5'	Total/NA	Solid	SHAKE	
885-2895-4	BH24-02 0'	Total/NA	Solid	SHAKE	
885-2895-5	BH24-02 2'	Total/NA	Solid	SHAKE	
885-2895-6	BH24-02 4'	Total/NA	Solid	SHAKE	
885-2895-7	BH24-03 2'	Total/NA	Solid	SHAKE	
885-2895-8	BH24-03 4'	Total/NA	Solid	SHAKE	
885-2895-9	BH24-04 2'	Total/NA	Solid	SHAKE	
885-2895-10	BH24-04 3'	Total/NA	Solid	SHAKE	
885-2895-11	BH24-05 0'	Total/NA	Solid	SHAKE	
885-2895-12	BH24-05 2'	Total/NA	Solid	SHAKE	
885-2895-13	BH24-05 4'	Total/NA	Solid	SHAKE	
885-2895-14	BH24-05 6'	Total/NA	Solid	SHAKE	
885-2895-15	BH24-06 0'	Total/NA	Solid	SHAKE	
885-2895-16	BH24-06 2'	Total/NA	Solid	SHAKE	

#### **Eurofins Albuquerque**

Page 137 of 206

Job ID: 885-2895-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### GC Semi VOA (Continued)

#### Prep Batch: 3455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-17	BH24-06 4'	Total/NA	Solid	SHAKE	
885-2895-18	BH24-07 0'	Total/NA	Solid	SHAKE	
885-2895-19	BH24-07 2'	Total/NA	Solid	SHAKE	
885-2895-20	BH24-07 4'	Total/NA	Solid	SHAKE	
MB 885-3455/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3455/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2895-20 MS	BH24-07 4'	Total/NA	Solid	SHAKE	
885-2895-20 MSD	BH24-07 4'	Total/NA	Solid	SHAKE	

#### Analysis Batch: 3573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Total/NA	Solid	8015D	3455
885-2895-2	BH24-01 2'	Total/NA	Solid	8015D	3455
885-2895-3	BH24-01 3.5'	Total/NA	Solid	8015D	3455
885-2895-4	BH24-02 0'	Total/NA	Solid	8015D	3455
885-2895-5	BH24-02 2'	Total/NA	Solid	8015D	3455
885-2895-6	BH24-02 4'	Total/NA	Solid	8015D	3455
885-2895-7	BH24-03 2'	Total/NA	Solid	8015D	3455
885-2895-8	BH24-03 4'	Total/NA	Solid	8015D	3455
885-2895-9	BH24-04 2'	Total/NA	Solid	8015D	3455
885-2895-10	BH24-04 3'	Total/NA	Solid	8015D	3455
885-2895-11	BH24-05 0'	Total/NA	Solid	8015D	3455
885-2895-12	BH24-05 2'	Total/NA	Solid	8015D	3455
885-2895-13	BH24-05 4'	Total/NA	Solid	8015D	3455
885-2895-14	BH24-05 6'	Total/NA	Solid	8015D	3455
885-2895-15	BH24-06 0'	Total/NA	Solid	8015D	3455
885-2895-16	BH24-06 2'	Total/NA	Solid	8015D	3455
885-2895-17	BH24-06 4'	Total/NA	Solid	8015D	3455
885-2895-18	BH24-07 0'	Total/NA	Solid	8015D	3455
885-2895-19	BH24-07 2'	Total/NA	Solid	8015D	3455
885-2895-20	BH24-07 4'	Total/NA	Solid	8015D	3455
MB 885-3455/1-A	Method Blank	Total/NA	Solid	8015D	3455
LCS 885-3455/2-A	Lab Control Sample	Total/NA	Solid	8015D	3455
885-2895-20 MS	BH24-07 4'	Total/NA	Solid	8015D	3455
885-2895-20 MSD	BH24-07 4'	Total/NA	Solid	8015D	3455

#### HPLC/IC

#### Leach Batch: 78727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-9	BH24-04 2'	Soluble	Solid	DI Leach	
885-2895-10	BH24-04 3'	Soluble	Solid	DI Leach	
885-2895-11	BH24-05 0'	Soluble	Solid	DI Leach	
885-2895-12	BH24-05 2'	Soluble	Solid	DI Leach	
885-2895-13	BH24-05 4'	Soluble	Solid	DI Leach	
885-2895-14	BH24-05 6'	Soluble	Solid	DI Leach	
885-2895-15	BH24-06 0'	Soluble	Solid	DI Leach	
885-2895-16	BH24-06 2'	Soluble	Solid	DI Leach	
885-2895-17	BH24-06 4'	Soluble	Solid	DI Leach	
885-2895-18	BH24-07 0'	Soluble	Solid	DI Leach	
885-2895-19	BH24-07 2'	Soluble	Solid	DI Leach	

#### **Eurofins Albuquerque**

Page 138 of 206

Job ID: 885-2895-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### HPLC/IC (Continued)

#### Leach Batch: 78727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-20	BH24-07 4'	Soluble	Solid	DI Leach	
MB 880-78727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2895-9 MS	BH24-04 2'	Soluble	Solid	DI Leach	
885-2895-9 MSD	BH24-04 2'	Soluble	Solid	DI Leach	
885-2895-19 MS	BH24-07 2'	Soluble	Solid	DI Leach	
885-2895-19 MSD	BH24-07 2'	Soluble	Solid	DI Leach	

#### Leach Batch: 78728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Soluble	Solid	DI Leach	
885-2895-2	BH24-01 2'	Soluble	Solid	DI Leach	
885-2895-3	BH24-01 3.5'	Soluble	Solid	DI Leach	
885-2895-4	BH24-02 0'	Soluble	Solid	DI Leach	
885-2895-5	BH24-02 2'	Soluble	Solid	DI Leach	
885-2895-6	BH24-02 4'	Soluble	Solid	DI Leach	
885-2895-7	BH24-03 2'	Soluble	Solid	DI Leach	
885-2895-8	BH24-03 4'	Soluble	Solid	DI Leach	
MB 880-78728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2895-1 MS	BH24-01 0'	Soluble	Solid	DI Leach	
885-2895-1 MSD	BH24-01 0'	Soluble	Solid	DI Leach	

#### Analysis Batch: 78768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-9	BH24-04 2'	Soluble	Solid	300.0	78727
885-2895-10	BH24-04 3'	Soluble	Solid	300.0	78727
885-2895-11	BH24-05 0'	Soluble	Solid	300.0	78727
885-2895-12	BH24-05 2'	Soluble	Solid	300.0	78727
885-2895-13	BH24-05 4'	Soluble	Solid	300.0	78727
885-2895-14	BH24-05 6'	Soluble	Solid	300.0	78727
885-2895-15	BH24-06 0'	Soluble	Solid	300.0	78727
885-2895-16	BH24-06 2'	Soluble	Solid	300.0	78727
885-2895-17	BH24-06 4'	Soluble	Solid	300.0	78727
885-2895-18	BH24-07 0'	Soluble	Solid	300.0	78727
885-2895-19	BH24-07 2'	Soluble	Solid	300.0	78727
885-2895-20	BH24-07 4'	Soluble	Solid	300.0	78727
MB 880-78727/1-A	Method Blank	Soluble	Solid	300.0	78727
LCS 880-78727/2-A	Lab Control Sample	Soluble	Solid	300.0	78727
LCSD 880-78727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78727
885-2895-9 MS	BH24-04 2'	Soluble	Solid	300.0	78727
885-2895-9 MSD	BH24-04 2'	Soluble	Solid	300.0	78727
885-2895-19 MS	BH24-07 2'	Soluble	Solid	300.0	78727
885-2895-19 MSD	BH24-07 2'	Soluble	Solid	300.0	78727

#### Analysis Batch: 78802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-1	BH24-01 0'	Soluble	Solid	300.0	78728
885-2895-2	BH24-01 2'	Soluble	Solid	300.0	78728

#### **Eurofins Albuquerque**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### HPLC/IC (Continued)

#### Analysis Batch: 78802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2895-3	BH24-01 3.5'	Soluble	Solid	300.0	78728
885-2895-4	BH24-02 0'	Soluble	Solid	300.0	78728
885-2895-5	BH24-02 2'	Soluble	Solid	300.0	78728
885-2895-6	BH24-02 4'	Soluble	Solid	300.0	78728
885-2895-7	BH24-03 2'	Soluble	Solid	300.0	78728
885-2895-8	BH24-03 4'	Soluble	Solid	300.0	78728
MB 880-78728/1-A	Method Blank	Soluble	Solid	300.0	78728
LCS 880-78728/2-A	Lab Control Sample	Soluble	Solid	300.0	78728
LCSD 880-78728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78728
885-2895-1 MS	BH24-01 0'	Soluble	Solid	300.0	78728
885-2895-1 MSD	BH24-01 0'	Soluble	Solid	300.0	78728

Job ID: 885-2895-1

Project/Site: Big Eddy Unit DI 9 35H

Client Sample ID: BH24-01 0'

Job ID: 885-2895-1

#### Lab Sample ID: 885-2895-1 Matrix: Solid

Date Collected: 04/13/24 09:00 Date Received: 04/16/24 07:55

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		2	3574	JP	EET ALB	04/19/24 00:03
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		2	3575	JP	EET ALB	04/19/24 00:03
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		20	3573	JU	EET ALB	04/18/24 16:01
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		5	78802	SMC	EET MID	04/20/24 02:48

#### Client Sample ID: BH24-01 2'

Date Collected: 04/13/24 09:10 Date Received: 04/16/24 07:55

Γ	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 15:27
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 15:27
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 16:25
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:02

#### Client Sample ID: BH24-01 3.5'

#### Date Collected: 04/13/24 09:20 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 15:50
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 15:50
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 16:38
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:07

#### Client Sample ID: BH24-02 0' Date Collected: 04/13/24 09:25 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		2	3574	JP	EET ALB	04/18/24 16:14

**Eurofins Albuquerque** 

Lab Sample ID: 885-2895-2

Matrix: Solid

4

Matrix: Solid

Lab Sample ID: 885-2895-3

Lab Sample ID: 885-2895-4

Released to Imaging: 7/15/2024 1:34:50 PM

Matrix: Solid

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-02 0'

Date Collected: 04/13/24 09:25

Date Received: 04/16/24 07:55

**Client: Vertex** 

Job ID: 885-2895-1

## Lab Sample ID: 885-2895-4

Lab Sample ID: 885-2895-5

Matrix: Solid

Matrix: Solid

#### Batch Batch Dilution Prepared Batch Prep Type Method Factor Number Analyst or Analyzed Туре Run Lab Total/NA 5030C 3449 JP EET ALB 04/17/24 12:10 Prep Total/NA 8021B 3575 JP 2 04/18/24 16:14 Analysis EET ALB Total/NA Prep SHAKE 3455 DH EET ALB 04/17/24 14:47 8015D Total/NA Analysis 20 3573 JU EET ALB 04/18/24 16:13 Soluble DI Leach 78728 SMC EET MID 04/19/24 10:40 Leach 04/20/24 03:12 Soluble Analysis 300.0 5 78802 SMC EET MID

#### Client Sample ID: BH24-02 2' Date Collected: 04/13/24 09:30 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 16:37
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 16:37
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 16:50
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:16

#### Client Sample ID: BH24-02 4' Date Collected: 04/13/24 09:35 Date Received: 04/16/24 07:55

Lab Sample ID:	885-2895-6

Lab Sample ID: 885-2895-7

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 17:00
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 17:00
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:02
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:31

#### Client Sample ID: BH24-03 2' Date Collected: 04/13/24 11:35 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 17:24
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 17:24

**Eurofins Albuquerque** 

Page 142 of 206

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-03 2'

Date Collected: 04/13/24 11:35

Date Received: 04/16/24 07:55

Client: Vertex

Soluble

Job ID: 885-2895-1

## Lab Sample ID: 885-2895-7

Lab Sample ID: 885-2895-8

Prepared

or Analyzed 04/17/24 14:47 04/18/24 17:14 04/19/24 10:40

04/20/24 03:36

EET MID

Matrix: Solid

Matrix: Solid

78802 SMC

Date	Received.	04/10/24 0	1.00					
		Batch	Batch		Dilution	Batch		
Prep	Туре	Туре	Method	Run	Factor	Number	Analyst	Lab
Total/	'NA	Prep	SHAKE			3455	DH	EET ALB
Total/	NA	Analysis	8015D		1	3573	JU	EET ALB
Solub	ble	Leach	DI Leach			78728	SMC	EET MID

#### Client Sample ID: BH24-03 4' Date Collected: 04/13/24 11:40 Date Received: 04/16/24 07:55

Analysis

300.0

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 17:47
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 17:47
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:26
Soluble	Leach	DI Leach			78728	SMC	EET MID	04/19/24 10:40
Soluble	Analysis	300.0		1	78802	SMC	EET MID	04/20/24 03:41

1

#### Client Sample ID: BH24-04 2' Date Collected: 04/13/24 12:05 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Run Factor		Number Analyst		or Analyzed	
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10	
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 18:34	
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10	
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 18:34	
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47	
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:39	
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36	
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 15:54	

#### Client Sample ID: BH24-04 3' Date Collected: 04/13/24 12:10 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 18:58
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 18:58
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 17:51

#### Lab Sample ID: 885-2895-9 Matrix: Solid

Lab Sample ID: 885-2895-10

**Eurofins Albuquerque** 

Matrix: Solid

#### Lab Chronicle

Job ID: 885-2895-1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 885-2895-10

Lab Sample ID: 885-2895-11

#### Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-04 3' Date Collected: 04/13/24 12:10 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:08

#### Client Sample ID: BH24-05 0' Date Collected: 04/13/24 12:40 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 19:21
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 19:21
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:03
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:13

#### Client Sample ID: BH24-05 2' Date Collected: 04/13/24 12:45 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 19:45
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 19:45
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:15
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:18

#### Client Sample ID: BH24-05 4' Date Collected: 04/13/24 12:50 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 20:08
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 20:08
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:28
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:23

#### **Eurofins Albuquerque**

8

# Lab Sample ID: 885-2895-12

Lab Sample ID: 885-2895-13

Matrix: Solid

Matrix: Solid
Job ID: 885-2895-1

## Lab Sample ID: 885-2895-14

Matrix: Solid

### Lab Sample ID: 885-2895-15

Lab Sample ID: 885-2895-16

Lab Sample ID: 885-2895-17

Matrix: Solid

Matrix: Solid

Project/Site: Big Eddy Unit DI 9 35H

Client: Vertex

#### Client Sample ID: BH24-05 6' Date Collected: 04/13/24 15:30 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
lotal/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 20:31
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 20:31
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
lotal/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:40
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:37

## Client Sample ID: BH24-06 0'

Date Collected: 04/13/24 12:55 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 20:55
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 20:55
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 18:52
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:42

#### Client Sample ID: BH24-06 2'

#### Date Collected: 04/13/24 13:05 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 21:42
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 21:42
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:04
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:47

#### Client Sample ID: BH24-06 4' Date Collected: 04/13/24 13:10 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 22:05

**Eurofins Albuquerque** 

Matrix: Solid

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-06 4'

Date Collected: 04/13/24 13:10

**Client: Vertex** 

Job ID: 885-2895-1

## Lab Sample ID: 885-2895-17

Lab Sample ID: 885-2895-18

Matrix: Solid

Matrix: Solid

#### Date Received: 04/16/24 07:55 Batch Batch Dilution Prepared Batch **Prep Type** Method Factor Number Analyst or Analyzed Туре Run Lab Total/NA 5030C 3449 JP EET ALB 04/17/24 12:10 Prep Total/NA 8021B 3575 JP 04/18/24 22:05 EET ALB Analysis 1 Total/NA Prep SHAKE 3455 DH EET ALB 04/17/24 14:47 04/18/24 19:16 Total/NA Analysis 8015D 3573 JU EET ALB 1 Soluble DI Leach 78727 SMC EET MID 04/19/24 10:36 Leach Soluble Analysis 300.0 1 78768 SMC EET MID 04/19/24 16:52

#### Client Sample ID: BH24-07 0' Date Collected: 04/13/24 13:20 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 22:29
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 22:29
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:47
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:29
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 16:57

#### Client Sample ID: BH24-07 2' Date Collected: 04/13/24 13:25 Date Received: 04/16/24 07:55

## Lab Sample ID: 885-2895-19

Lab Sample ID: 885-2895-20

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 23:16
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 23:16
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:52
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:41
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 17:02

#### Client Sample ID: BH24-07 4' Date Collected: 04/13/24 13:30 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8015D		1	3574	JP	EET ALB	04/18/24 23:39
Total/NA	Prep	5030C			3449	JP	EET ALB	04/17/24 12:10
Total/NA	Analysis	8021B		1	3575	JP	EET ALB	04/18/24 23:39

**Eurofins Albuquerque** 

> 9 1(

Job ID: 885-2895-1

Matrix: Solid

Lab Sample ID: 885-2895-20

# Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-07 4' Date Collected: 04/13/24 13:30 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			3455	DH	EET ALB	04/17/24 14:52
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 19:53
Soluble	Leach	DI Leach			78727	SMC	EET MID	04/19/24 10:36
Soluble	Analysis	300.0		1	78768	SMC	EET MID	04/19/24 17:16

#### Laboratory References:

**Client: Vertex** 

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# 5 6 7 8 9 10

**Eurofins Albuquerque** 

## **Accreditation/Certification Summary**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

## Laboratory: Eurofins Albuquerque

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

0,	State		NM9425, NM0901	02-26-25	
0,	are included in this repo				
for which the agency of		rt, but the laboratory is r	not certified by the governing authori	ty. This list may include analytes	
for which the agency t	loes not offer certificatior	l.	, , , , , , , , , , , , , , , , , , , ,		
Analysis Method	Prep Method	Matrix	Analyte		
8015D	5030C	Solid	Gasoline Range Organics	s [C6 - C10]	
8015D	SHAKE	Solid	Diesel Range Organics [0	C10-C28]	
8015D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]	
8021B	5030C	Solid	Benzene		
8021B	5030C	Solid	Ethylbenzene		_
8021B	5030C	Solid	Toluene		
8021B	5030C	Solid	Xylenes, Total		
Dregon	NELA	P	NM100001	02-26-25	
aboratory: Eurofir	ac Midland				

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Job ID: 885-2895-1

Page 148 of 206

Receive	d by (			/202	24.1	1:55	5 <u>:0</u> 4				;														<u> </u>	<u>age 1</u>	49 of 2	206 1
HALL ENVIRONMENTA			4107 #85.2695 COC			•																_				cost certainer # 114000 tool CC.Sally Caritar (scarttar@vertex.ca) for Final Report.	read, eorigade ani	2 3 4
VIRO	ANALYSIS LABOR	Albuquerque NM 8710	x 505-345-4107	s Requést	(រុប៖	əsqı	Aln			- IUL	8260 (VC 8270 (Se Total Col						-					_				rtex.ca) foi	de treaty noialed on the analytica	5 6
LL EN	ALT3.		375 Fax	Analysis	108	S '7(	о <b>н</b> (	"ON		N.	а Аяря иа. н(()) из ст(())	×	×	×	×]	×	×	×	*	×	×	×	×	iergy, Inc.	61001	arttar@ve		7
HA		4901 Hawkins NË	505-345-3975			-		۱L	209 1	юцŧ	eM) BOB Yd sHAG										_			to XTO Er	435491 or # 11406	artar (sca	Any sub-contracted date w	9
		4901	Tel		(0	ЯM	103	901	о́Я€	)09	8081 Pes	×	x x	XX	××	x x	××	×	××	×	×	×	×   ×	Remarks: Direct BIII to XTO Energy, Inc.	NAPP2335435491 Cost Conter # 1140661001	CC.Sally C	s acss b dy Any	1
	in the second		Ì						C No	64 6.1 2.1 2	HEAL No.													Date Time   Ultration internation	Time	75.6 214	This series as not to at th	
id Time rd – <b>ZRush</b> 5-dav	1	Big Eddy Unit DI 9 35H	1		nager	är	vertex са	L Pulman	- <u>5</u> Yes	(Treache Crit	a''re											-	_		en l	1 avria 4	ń aporedistę intoratores	
Tum-Around Time	Project Name	Big Eddy 1	Project #	24E-01314	Project Manager	Sally Carttar	SCartar@vertex ca	Sampler	On Ice: * of Contor	Cooler Temp	Containe/ Type and #	1. 402 jàr	1. 402 Jar	1. 402 jar	1. 402 jar	1. 4oz jar	1. 4oz jar	1, 4oz jar	. 1. 40Z Jar	1. 4oz jar	1. 402 jār	1. 402 jar	1, 402 jar	Received by Ministry and a	Recained 24		certacità la de	
Chain-of-Custody Record		On file					C Level 4 (Full Validation)	Az Compliance			Sample Name	BH24-01 0'	BH24-0 <sup>+</sup> 2'	BH24-01 3 5	BH24-02 0'	BH24-02 2'	BH24-02.4'	BH24-03 2'	BH24-03 4 <sup>-</sup>	BH24-04 2'	BH24-04 3'	BH24-05 0'	BH24-05 2'		se by	alturen	ار موجودهم. دیستواده دیمسترده ما از قام بورسودیه، شهر وه دیموددمورد از طریع	
I-of-Cu (Bill to X1		s	1					I Az Co	i Other		Matrix	Soil	Sol.	Soil	Sol	Sol	Sol:	Soi	Soil	Soil	Sol	Sol	-		Relinquished b	URAU	ers såjdurs k	
<u>Chain</u> Vertex		Mailing Address	i	Ħ	ema I or Fax#	QA/OC Package	Standard	Accreditation	NELAC EPD (Turna)		Time	4 9.00	4 9 1 3	4 920	4 9 25	• 930	≤ 5 35	4 11 35	4 1140	4 12 05	4 12 10	4 12 40	4 12 45	0310 Time	Tine	1910	l' nquessary	
Client		Marin		Phone #	ema	QAVOC	8.9 []	Accrev			Date	04 13 24	04 15 24	b 04 13 24	04 15 24	04:13:24	04 13 24	04 15 24	04 13 24	D4 15 24	04 15 24	04 13 24	04 13 24	Unite Date Date Date	-	41424	2024	

Image: Name         All VSIS LABORATORY           Project Name         Rown railer unormatier unormatier commercial commercommercommercommercial commercial commercommercial commercial co	AMALYSIS LABORATORY       MALYSIS LABORATORY       MARYSIS LABORATORY       Mainter vincome tail com       B081 Pest(cultes/8058 PCB*       Analysis Routest       Analysis Routest       RCRA & Motals       RCRA & ROUNCHORNINADS       RCR	Image: Second state         Class of the second state         Add YSIS	Chain-of-Custody Record	Turr-Around Time	
Project Name         Mainter NE         All outerque MM 87103           Eig Eddy Unit DI0 35H         24E-601314         4931 Hawtins NE         All outerque MM 87103           Froject Marr Bar         Froject Marr Bar         All outerque MM 87103         24E-601314           Froject Marr Bar         Froject Marr Bar         All outerque MM 87103           Froject Marr Bar         Froject Marr Bar         All outer Carter           Froject Marr Bar         Froject Marr Bar         All outer           Froject Marr Bar         Frologen Marr         All outer           All outer         Froject Marr Bar         Marr           All outer         Frome         All outer           All outer         Frome         All outer           All outer         Frome         All outer           All outer         Frole Marr	Www.mailer_virionmertal.com       C1 Hawkins NS: - Alturguergue MM 87109       C1 Hawkins NS: - Alturguerguerguerguerguerguerguerguerguergu	Montailler viconmertai com       01 Hawkins NS - Altroquer MM 87103       el 305-345-3375     Fax 535-345-4707       AddYsis Request       AddYsis Requires       AddYsis Report       AddYsis Report	lnc)	n	. ≻
Big Eddy Unit DI 9 36H         4821 Hawkins KE - Altoquerque MM 87109           Project al         Project al           Project al         266-01315         Far 505-345-4107           Project al         266-01317         266-01315         Far 505-345-4107           Project al         2810/0.1010.010.010.010.010.010.010.010.01	01 Hawkins NE       Altuquerque NM 87103         03 05-345-3475       Fax 535-345-4103         04 10       Analysis Roquest         Analysis Roquest       Ana	01 Hawkins NE       Altuquerque NM 87103         ef 505-345-375       Fax 535-345-4103         ef 505-345-4103       Altuquerque NM 87103         Altuquerque NM 87103       Fax 535-345-4103         Altuquerque NM 87103       Altuquerque NM 87103         Altuquerque NM 87103       EDB (Method 504 1)         Altuquerque NM 87103       Altuquerque NM 87103         Altuqergenne NM 87103       Altuqergenne NM 87103 <td></td> <td>Project Name</td> <td>chiai com</td>		Project Name	chiai com
Project #         Tel         Sols-3473         Face 505-345-4 °C           24E-01314         24E-01314         24E-01314         24E-01314           24E-01314         24E-01314         24E-01314         24E-01314           Project Marager         Sally Cartraig         Sally Cartraig         Sally Cartraig           Project Marager         Sally Cartraig         Sally Cartraig         Sally Cartraig           Project Marager         Sally Cartraig         Sally Cartraig         Sally Cartraig           Sally Cartraig         Sally Cartraig         Sally Cartraig         Sally Cartraig           Sally Cartraig         Sally Cartraig         Sally Cartraig         Sally Cartraig           Onlice:         Dread         Projon         No. JO., NO., NO., NO., NO., Sol. <sol.<sol.< td="">           Onlice:         Preservative         HEAL NO.         X         X         X           Add Cartraig         Prostone         No. JO., NO., NO., NO., NO., NO., NO., NO., Sol.<sol.< td="">         NO., Sol.         NO., Sol.           Add Cartraig         Pace Indexeders         X         X         X         X         X           Add Capit         1 402 Jar         X         X         X         X         X         X         X           Add Capit&lt;</sol.<></sol.<sol.<>	el       505-345-3375       Fax 535-345-3375       Fax 535-345-3375         Atalysis       Robit Pesticides/8682 PCB*s       Atalysis       Robit Pesticides/8682 PCB*s         Atalysis       Robit Pesticides/8682 PCB*s       Robit NO2, POL, SO4       Atalysis       Robit NO2, POL, SO4         Atalysis       Robit NO3, POL, SO4       Robit NO3, POL, SO4       NO3, POL, SO4       Atalysis         Atalysis       Robit NO3, POL, SO4       Robit NO3, POL, SO4       Atalysis       Atalysis         Atalysis       Robit NO3, POL, SO4       Robit NO3, POL, SO4       Atalysis       Atalysis         Atalysis       Robit NO3, POL, SO4       Robit NO3, POL, SO4       Atalysis       Atalysis         Atalysis       Robit NO3, POL, SO4       Robit NO3, POL, SO4       Atalysis       Atalysis         Atalysis       Robit NO3, POL, SO4       Robit NO4       Atalysis       Atalysis         Atalysis       Robit NO4       Robit NO4       Atalysis       Atalysis       Atalysis         Atalysis       Robit NO4       Robit NO4       Atalysis       Atalysis       Atalysis       Atalysis         Atalysis       Robit NO4       Robit NO4       Atalysis       Atalysis       Atalysis       Atalysis       Atalysis         Atalysis       R	6       505-345-3375       Fax 535-3454-07         Atalysis       Rolles/6682 PCB's         Rolles/6682 PCB's       Rolles/6682 PCB's         Roll       Rolles/6793431         Roll       Rolles/6793431         Roll       Rolles/6793431         Rolles/6704       Rolles/6704         Rolles/6704       Rolles/6704		Big Eddy Unit DI 9 35H	<ul> <li>Albuquerque NM 87109</li> </ul>
24E-01314         24E-01314           Project Nameger         Project Nameger           Project Nameger         Scantragenetica           Project Nameger         Scantragenetica           Scantragenetica         Scantragenetica	Analysis         BOBI Pesticules/8068 PCB's           Analysis         8061 Pesticules/8068 PCB's           Analysis         8061 Pesticules/8068 PCB's           Analysis         8061 Pesticules/8068 PCB's           Robit Pesticules/8068 PCB's         8270 or 8270 or 8270 SIMS           Robit Pesticules/8068 PCB's         8260 (VOA)           Robit Pesticules/8068 PCB's         8280 (VOA)           Robit Pesticules/8068 PCB's         8270 (Semi VOA)           Robit Pesticules/8068 PCB's         8270 (Semi VOA)           Robit Pesticules/8068 PCB's         8280 (VOA)           Robit Pool         8808           Robit Pool         8808 <tr< td=""><td>Atalysis       Adalysis       <th< td=""><td></td><td>Project #</td><td>505-345-3375 Fax 535-345-4°07</td></th<></td></tr<>	Atalysis       Adalysis       Adalysis <th< td=""><td></td><td>Project #</td><td>505-345-3375 Fax 535-345-4°07</td></th<>		Project #	505-345-3375 Fax 535-345-4°07
Project Manager         Project Manager           Safty Cartiar         Safty Cartiar           Add Tarty         Marcial           Add Tarty         Safty Cartiar           Safty Cartiar         Safty Cartiar           Cooler Teimpeowers         Free (600 / HOA)           Cooler Teimpeowers         Free           Add Tarty Cartiar (6021)         Safty Tarty Cartiar (6021)           Add Tar         Safty Tarty Cartere	An subsequences and set of the set	And Sector Contraction of the sector of t		24E-01314	
Sally Carttar         Sally Carttar           (1/ Validation)         SCanter(g)vertex ca           Sally Carttar         Scanter           Sally Carttar         Scanter           Santy Carttar         Scanter           Scanter         Prestouteveloc           Santy Carttar         Scolor Santer           Scolor Tempowers         L-L-L-L-L-L-L-L-L-L-L-L-L-L-L-L-L-L-L-	All Schules     State     State <td>Answer       BCB1 Pesticules/8065 PCB's         BCB1 Pesticules/8065 PCB's       BCB1 Pesticules/8065 PCB's         PCB2 PCB1 Pestic       BCB1 Pestic         PCB2 PCB2 PCB1 PEstic       PCB2 PCB2 PCB         PCB2 PCB2 PCB2 PCB2 PCB       PCB2 PCB2 PCB         PCB2 PCB2 PCB2 PCB2 PCB2 PCB2 PCB       PCB2 PCB2 PCB2 PCB         PCB2 PCB2 PCB2 PCB2 PCB2 PCB2 PCB2 PCB2</td> <td></td> <td>Project Marager</td> <td>() () () ()</td>	Answer       BCB1 Pesticules/8065 PCB's         BCB1 Pesticules/8065 PCB's       BCB1 Pesticules/8065 PCB's         PCB2 PCB1 Pestic       BCB1 Pestic         PCB2 PCB2 PCB1 PEstic       PCB2 PCB2 PCB         PCB2 PCB2 PCB2 PCB2 PCB       PCB2 PCB2 PCB         PCB2 PCB2 PCB2 PCB2 PCB2 PCB2 PCB       PCB2 PCB2 PCB2 PCB         PCB2 PCB2 PCB2 PCB2 PCB2 PCB2 PCB2 PCB2		Project Marager	() () () ()
Introduction         Scantargiventex ca         Introduction         Scantargiventex ca           Sample         Definition         Scantargiventex ca         Scantargiventex ca           Route         Definition         Scantargiventex ca         Scantargiventex ca           Route         Definition         Definition         Definition           Route         Definition         Definition         Definition           Route         Definition         Definition         Definition           Route         Topical Personality         Recent and	Arresonancer 680       B081       Pesticules/8068       Pesticules/8068       Pesticules/8068         B081       Pesticules/8068       Pesticu	All the point       BIS 1 Pesticides/8082 PC         BIS 1 Pesticides/8082 PC       BIS 1 Pesticides/8082 PC         BIS 1 Pesticides/8082 PC       BIS 270 (Semi VOA)         BIS 2 PC       BIS 2 PC		Sally Carttar	
Sampler         L         Fullmen           0n.lcs:         D-hes         T.Mo           0n.lcs:         D-hes         T.Mo           0n.lcs:         D-hes         T.Mo           20.lcs:         D-hes         No.lcs:           20.lcs:         D-hes         No.lcs:           20.lcs:         Hestware         Hestware           20.lcs:         1 402 pr         K           24.05 2         1 402 pr         K           24.05 2         1 402 pr         K           24.07 4         1 402 pr         K           24.07 4         1 402 pr         K           24.07 7         1 402 pr         K<	Arr subcontex state       8081       Peaticulas/8083         B081       Peaticulas/8083       Peaticulas/8083         B10       Peaticulas/8083       Peaticulas/8083         B11       Peaticulas/8083       Peaticulas/8083         B11       Peaticulas/8083       Peaticulas/8083         Peaticulas/8083       Peaticulas/8084       Peaticulas/8084         Peaticulas/8084       Peaticulas/8084       Peaticulas/8084         Peaticu	An subsection       BOB1 Pest(cules/8082         An subsection       BOB1 Pest(cules/8082         BOB1 Pest(cules/8082       BOB1 Pest(cules/8082         BOB1 Pest(cules/8082       BS20 (Semi VOA)         BOB1 Pest(cules/8082       BS20 (Semi VOA)         BIL to X10       EDS (Method 504 1)         BIL to X10       EDS (DEDS 1001         BIL to X10       EDS 10         BIL to X10	Full Validation)	SCerttar@vertex ca	
On Let:         Date:         <	Breaker (Section device)       Breaker (Section device)         Breaker (Sectin device)	Arrent Scarttar (Scarttar		-	
# of Coolers	BOBI Pesticide         BOBI P	All and a set of the set		63 <b>,-13</b> -	(b) (b) (b) (c) (c)
Cooler Termix-avalue         Name         Cooler Termix-avalue         NEAL No.         Name         Name <td>BLOBIL Pestid         BLOBIL Pestid         <td< td=""><td>68.681       Pestid         80.81       Pestid         90.81       Pestid         90.81       Pestid         90.81       Pestid<td></td><td>Jers: J J</td><td>۸۸ (0<sup>1</sup>) (10<sup>2</sup>) (10<sup>2</sup>) (10<sup>2</sup>)</td></td></td<></td>	BLOBIL Pestid         BLOBIL Pestid <td< td=""><td>68.681       Pestid         80.81       Pestid         90.81       Pestid         90.81       Pestid         90.81       Pestid<td></td><td>Jers: J J</td><td>۸۸ (0<sup>1</sup>) (10<sup>2</sup>) (10<sup>2</sup>) (10<sup>2</sup>)</td></td></td<>	68.681       Pestid         80.81       Pestid         90.81       Pestid         90.81       Pestid         90.81       Pestid <td></td> <td>Jers: J J</td> <td>۸۸ (0<sup>1</sup>) (10<sup>2</sup>) (10<sup>2</sup>) (10<sup>2</sup>)</td>		Jers: J J	۸۸ (0 <sup>1</sup> ) (10 <sup>2</sup> ) (10 <sup>2</sup> ) (10 <sup>2</sup> )
Name         Container         Preservative         HEAL No.         The model         Preservative         HEAL No.         The model         Preservative         Name         Container         Preservative         HEAL No.         The model         Preservative         Name         Preservative         Name         Preservative         Name         Preservative         Name         Preservative         Name         Preservative         Name         Nam         Nam         Name	R081 Pc         R081 Pc <td< td=""><td>8081 Per         8081 Per         8081 Per         8081 Per         8081 Per         8081 Per         8260 (V         8260 (V</td><td></td><td>Knowners: 1. (0+0+1-7)</td><td>900 100 100 100 100 100 100 100 100 100</td></td<>	8081 Per         8081 Per         8081 Per         8081 Per         8081 Per         8081 Per         8260 (V		Knowners: 1. (0+0+1-7)	900 100 100 100 100 100 100 100 100 100
A-05 4       1 402 jar       X	x     x       x <td>x     x       x       x    <t< td=""><td>Sample Name</td><td>Preservative Type</td><td>1214 80 8081 Pc 8081 Pc 8260 (V 8260 (V</td></t<></td>	x     x       x       x <t< td=""><td>Sample Name</td><td>Preservative Type</td><td>1214 80 8081 Pc 8081 Pc 8260 (V 8260 (V</td></t<>	Sample Name	Preservative Type	1214 80 8081 Pc 8081 Pc 8260 (V 8260 (V
A-D5 6       1 402 Jar       X	x     x     x       x     x       x <td>x     x     x       x     x       x<td>BH24-05-41</td><td>1 402 Jar</td><td>x</td></td>	x     x     x       x     x       x <td>BH24-05-41</td> <td>1 402 Jar</td> <td>x</td>	BH24-05-41	1 402 Jar	x
4-06 $1 + 402$ jar $X$ <td>x     x       x       x    <t< td=""><td><pre>x x x x x x x x x x x x x x x x x x x</pre></td><td>BH24-05 6'</td><td>1 4oz jar</td><td>×</td></t<></td>	x     x       x       x <t< td=""><td><pre>x x x x x x x x x x x x x x x x x x x</pre></td><td>BH24-05 6'</td><td>1 4oz jar</td><td>×</td></t<>	<pre>x x x x x x x x x x x x x x x x x x x</pre>	BH24-05 6'	1 4oz jar	×
4-05 2       1 $402$ jar       X       X       X       X       X       Y	<pre>x x x x x x x x x x x x x x x x x x x</pre>	X     X       X       X <t< td=""><td>BH24-06 0</td><td>1. 40z jar</td><td>×</td></t<>	BH24-06 0	1. 40z jar	×
A-06.4'       1 402 par       X	<pre>x x x x x x x x x x x x x x x x x x x</pre>	<pre>x x x x x x x x x x x x x x x x x x x</pre>	BH24-06 2 <sup>-</sup>		×
(4-07) (2) $(402)$ [ar       X <td>X     X     X       X     X     X       X    <t< td=""><td>X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X</td><td>BH24-06 4'</td><td></td><td>X</td></t<></td>	X     X     X       X     X     X       X <t< td=""><td>X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X</td><td>BH24-06 4'</td><td></td><td>X</td></t<>	X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X	BH24-06 4'		X
1407 2       1 402 jar       X	x     x     x       x     x     x       x <t< td=""><td>x     x     x       x     x     x       x    <t< td=""><td>BH24-07 0</td><td>1 4oz jar</td><td>x</td></t<></td></t<>	x     x     x       x     x     x       x <t< td=""><td>BH24-07 0</td><td>1 4oz jar</td><td>x</td></t<>	BH24-07 0	1 4oz jar	x
(4-07.4') $1.4oz$ Jar       X       X       X       X       Y <td><pre>x x x x x x x x x x x x x x x x x x x</pre></td> <td>Any sub-contracted Selection and an analytical restriction of the sub-contracted Selection of</td> <td>BH24-07 2</td> <td></td> <td></td>	<pre>x x x x x x x x x x x x x x x x x x x</pre>	Any sub-contracted Selection and an analytical restriction of the sub-contracted Selection of	BH24-07 2		
Recover by         Via         Date         Time         Remarks:           MMMMUL         U/S/24         5 20         Direct Bill to XTO Energy, Inc.           Receiver by         Via         Date         Time	still to XTO Energy, Inc. 335435491 Enter # 1140661001 briter # 1140661001 inv sub-contracted Sela wit or cleary nated on the analysis report.	s: s: s: s: s: s: s: s: s: s: s: s: s: s	BH24-07 4'	1. 4oz jar	×
Received by Via Date Tme Remarks: NOMMAAL Na Date Tme Remarks: NOMMAAL Na Date Tme Remarks: NAPP2335435491 Receive: by Via Date Trine Cost Center # 1140661001 Cost Center # 1140661001 CC.Sally Cartiar (Scarttar@vertex.ca) for Final Report.	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	s: s: sill to XTO Energy, Inc. 335435491 anter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. y Carttar (scarttar@vertex.ca) for Final Report.			
Received by Via Date Time Remarks: MMMAAULT (10,15/24) 5720 Direct Bill to XTO Energy, Inc. Meceive: by Via Date Time Cost Center # 1140661001 Receive: by Via Date Time Cost Center # 1140661001	(S: 315435491 anter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report.	Sill to XTO Energy, Inc. Sill to XTO Energy, Inc. 335435491 Enter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. Ary sub-contracted Data wit on cleary hotaled on the analysis record		_	
Received by Via Date Time Remarks: NOVANANA Via Date Time Remarks: NOVANANA Via Date Time Cost Center # 1140661001 Receiver by Via Date Time Cost Center # 1140661001 COSt Center # 1140661001 COST Center # 1140661001	(s: 3ill to XTO Energy, Inc. 335435491 anter # 1140661001 y Carttar (scarttar@yertex.ca) for Final Report. Ary sub-connected sets without acception for Final Report.	is: 335435491 anter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. Ary sub-contracted 2018 without ceary 1920164 ການຄອງເດີດ ການຄອງກາວ ກາວກາ			
MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Bill to XTO Energy, Inc. 335435491 anter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. Ary sub-contected belawf. or cleary receiled on the analysical report.	Sill to XTO Energy, Inc. 335435491 anter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. Ary sub-contracted Selawit or cleary hotseld on the analysica record		Via Date	Remarks:
Receives by Via Date Trie Cost Center # 1140661001 Cost Center # 1140661001 CC.Sally Carttar (scarttar@vertex.ca) for Final Report.	enter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. Ary sub-contected sets withon cleary received on the analysical report.	enter # 1140661001 y Carttar (scarttar@vertex.ca) for Final Report. Ary sub-controted 3013 withor cleary received on the analysical report.		History	<b></b> -
	Any sub-contracted dela wit do o early notated on the analysical report	Any sub-contracted dela wit on o early rotated on the analysical rooms	incushed by Biblioture-ser	14/11/27	ĝvertex.ca) for Final Report.

.

#### Login Sample Receipt Checklist

Client: Vertex

#### Login Number: 2895 List Number: 1 Creator: Rojas, Juan

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

Job Number: 885-2895-1

List Source: Eurofins Albuquerque

Job Number: 885-2895-1

List Source: Eurofins Midland

List Creation: 04/19/24 11:00 AM

#### Login Sample Receipt Checklist

Client: Vertex

Login Number: 2895 List Number: 2 Creator: Vasquez, Julisa

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

<6mm (1/4").

4/23/2024

11

Received by OCD: 7/3/2024 11:55:04 AM



**Environment Testing** 

#### Page 153 of 206

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ms. Sally Carter Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220 Generated 4/22/2024 11:51:01 AM

## JOB DESCRIPTION

Big Eddy Unit DI 9 35H

## **JOB NUMBER**

885-2902-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109





## **Eurofins Albuquerque**

### **Job Notes**

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

#### Authorization

Authorized for release by

(505)345-3975

Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com

Generated 4/22/2024 11:51:01 AM

Page 155 of 206

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	22
QC Association Summary	25
Lab Chronicle	29
Certification Summary	34
Chain of Custody	35
Receipt Checklists	39

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Qualifiers

#### ~ ~ : 10 .

OA COMPACTION OF A COMPACT OF
Qualifier Description
Surrogate recovery exceeds control limits, low biased.
Surrogate recovery exceeds control limits, high biased.
_

#### Glossary

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

3

5

#### **Case Narrative**

Job ID: 885-2902-1

Client: Vertex Project: Big Eddy Unit DI 9 35H

#### Job ID: 885-2902-1

#### **Eurofins Albuquerque**

# -2 3 4 5 6 7 8 9 10

#### Job Narrative 885-2902-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to
  demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
  method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 4/16/2024 7:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

#### Gasoline Range Organics

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

#### GC VOA

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

#### **Diesel Range Organics**

Method 8015D\_DRO: Surrogate recovery for the following sample was outside the upper control limit: BH24-15 2' (885-2902-16). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

#### HPLC/IC

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

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-08 0' Date Collected: 04/14/24 09:45 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	line Range	Organics (	(GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 02:16	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Xylenes, Total	ND		0.098	mg/Kg		04/16/24 17:07	04/18/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			04/16/24 17:07	04/18/24 02:16	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/17/24 09:56	04/18/24 22:19	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 09:56	04/18/24 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	81		62 - 134			04/17/24 09:56	04/18/24 22:19	1
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92		5.0	mg/Kg		·	04/19/24 09:53	1

Page 158 of 206

Job ID: 885-2902-1

#### Lab Sample ID: 885-2902-1 Matrix: Solid

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-08 2' Date Collected: 04/14/24 09:55 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg	_ =	04/16/24 17:07	04/18/24 02:38	1
	0/ <b>D</b> = = = = = = = = = =	Overlifier	1			Dura una se	Amelymod	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 02:38	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Xylenes, Total	ND		0.094	mg/Kg		04/16/24 17:07	04/18/24 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 02:38	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	(GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
B. I.B. 0						04/17/24 09:56	04/18/24 22:31	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		04/17/24 09.00	04/10/24 22.31	1
Motor Oil Range Organics [C10-C28]	ND ND		10 50	mg/Kg mg/Kg		04/17/24 09:56	04/18/24 22:31	1 1
		Qualifier		00				1 1 <b>Dil Fac</b>
Motor Oil Range Organics [C28-C40]	ND	Qualifier	50	00		04/17/24 09:56	04/18/24 22:31	1 1 <u>Dil Fac</u> 1
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND <b>%Recovery</b> 110		50 <u>Limits</u> 62 - 134	00		04/17/24 09:56 Prepared	04/18/24 22:31 Analyzed	1 1 <u>Dil Fac</u> 1
Motor Oil Range Organics [C28-C40] Surrogate	ND <u>%Recovery</u> 110 Ion Chroma		50 <u>Limits</u> 62 - 134	00	D	04/17/24 09:56 Prepared	04/18/24 22:31 Analyzed	1 1 Dil Fac 1 Dil Fac

Page 159 of 206

Job ID: 885-2902-1

Matrix: Solid

5

# Lab Sample ID: 885-2902-2

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-09 0' Date Collected: 04/14/24 10:00 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc	oline Range	Organics	(GRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 244			04/16/24 17:07	04/18/24 03:00	1
_ Method: SW846 8021B - Volat	tile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Toluene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 17:07	04/18/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/16/24 17:07	04/18/24 03:00	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/17/24 09:56	04/18/24 22:43	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		04/17/24 09:56	04/18/24 22:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			04/17/24 09:56	04/18/24 22:43	1
 Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
Method: EPA 300.0 - Anions, Analyte		tography - Qualifier	Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

**Eurofins Albuquerque** 

5

Job ID: 885-2902-1

#### Lab Sample ID: 885-2902-3 Matrix: Solid

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-09 2' Date Collected: 04/14/24 10:10 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gaso	-	-		11	-	Duenened	A	
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 03:21	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Xylenes, Total	ND		0.094	mg/Kg		04/16/24 17:07	04/18/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 03:21	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		04/17/24 09:56	04/18/24 22:55	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		04/17/24 09:56	04/18/24 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	118		62 - 134			04/17/24 09:56	04/18/24 22:55	1
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer	RL	Unit	U	Frepareu	Analyzeu	DIIFac

5

Job ID: 885-2902-1

#### Lab Sample ID: 885-2902-4 Matrix: Solid

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-10 2' Date Collected: 04/14/24 10:25 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/16/24 17:07	04/18/24 03:43	1
Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Xylenes, Total	ND		0.099	mg/Kg		04/16/24 17:07	04/18/24 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 03:43	1
Method: SW846 8015D - Dies	ol Pango Or	nanics (DE	20) (GC)					
	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	-	- · · ·		Unit mg/Kg	D	Prepared 04/17/24 09:56	Analyzed 04/18/24 23:07	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result	- · · ·			<u>D</u>	·		<b>Dil Fac</b> 1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result ND	Qualifier	RL 8.5	mg/Kg	<u>D</u>	04/17/24 09:56	04/18/24 23:07	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	Result ND ND	Qualifier	RL 8.5 42	mg/Kg	<u> </u>	04/17/24 09:56 04/17/24 09:56	04/18/24 23:07 04/18/24 23:07	1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 85	Qualifier Qualifier	RL           8.5           42           Limits           62 - 134	mg/Kg	<u>D</u>	04/17/24 09:56 04/17/24 09:56 <b>Prepared</b>	04/18/24 23:07 04/18/24 23:07 <i>Analyzed</i>	1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	Result ND ND %Recovery 85	Qualifier Qualifier	RL           8.5           42           Limits           62 - 134	mg/Kg	D D	04/17/24 09:56 04/17/24 09:56 <b>Prepared</b>	04/18/24 23:07 04/18/24 23:07 <i>Analyzed</i>	1 1

5

Job ID: 885-2902-1

Matrix: Solid

Lab Sample ID: 885-2902-5

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-10 4' Date Collected: 04/14/24 13:30 Date Received: 04/16/24 07:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 17:07	04/18/24 04:05
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 04:05
Method: SW846 8021B - Volat Analyte	-	Compound Qualifier	ds (GC) RL	Unit	D	Prepared	Analyzed
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 04:05
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 04:05
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 04:05
Xvlenes. Total	ND		0.095	mg/Kg		04/16/24 17:07	04/18/24 04:05

Xylenes, Total	ND	0.095	mg/Kg	04/16/24 17:07	04/18/24 04:05
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed
4-Bromofluorobenzene (Surr)	89	39 - 146		04/16/24 17:07	04/18/24 04:05
	esel Range Organics (D	RO) (GC)			

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		04/17/24 09:56	04/18/24 23:20	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/17/24 09:56	04/18/24 23:20	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	106		62 - 134			04/17/24 09:56	04/18/24 23:20	1	

	- Amons, ion oniona	logiupily	Colubic					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		5.0	mg/Kg			04/19/24 10:27	1

Page 163 of 206

Dil Fac

Dil Fac

Dil Fac

1

1

1

1

1

1

Dil Fac

Job ID: 885-2902-1

#### Lab Sample ID: 885-2902-6 Matrix: Solid

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-11 0' Date Collected: 04/14/24 10:30 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Surrogate	%Recoverv	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 04:49	1
_ Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Ethylbenzene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Toluene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Xylenes, Total	ND		0.092	mg/Kg		04/16/24 17:07	04/18/24 04:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		39 - 146			04/16/24 17:07	04/18/24 04:49	1
_ Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/17/24 09:56	04/18/24 23:32	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 09:56	04/18/24 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 107	Qualifier	Limits 62 - 134			Prepared 04/17/24 09:56	Analyzed 04/18/24 23:32	Dil Fac 1
Di-n-octyl phthalate (Surr)	107		62 - 134					Dil Fac 1
	107 Ion Chroma		62 - 134	Unit	D			Dil Fac

Lab Sample ID: 885-2902-7

#### Matrix: Solid

5

Job ID: 885-2902-1

Page 164 of 206

RL

Unit

D

Prepared

Analyzed

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-11 2' Date Collected: 04/14/24 10:40 Date Received: 04/16/24 07:55

Analyte

<b>Released to Imaging</b>	: 7/15/2024	1:34:50 PM

Eu	roti	ns	Alt	bu	qu	e

I	
_	
3	
1	
-	4
2	5

Page 165 of 206

4/22/2024

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

Result Qualifier

							•	
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/16/24 17:07	04/18/24 05:10	1
_ Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Ethylbenzene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Toluene	ND		0.046	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
Xylenes, Total	ND		0.093	mg/Kg		04/16/24 17:07	04/18/24 05:10	1
						Duononod	Analyzad	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	DIIFac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 88	Qualifier	Limits 39 - 146			04/16/24 17:07	04/18/24 05:10	1 Dii Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			-		<u>DII Fac</u> 1
	88 el Range Org		39 - 146	Unit	D	-		Dil Fac
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese	88 el Range Org	ganics (DF	39 - 146 RO) (GC)	Unit mg/Kg	D	04/16/24 17:07	04/18/24 05:10	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte	88 el Range Org Result	ganics (DF	39 - 146 RO) (GC) RL		<u>D</u>	04/16/24 17:07  Prepared 04/17/24 09:56	04/18/24 05:10 Analyzed 04/18/24 23:44	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28]	el Range Org Result	ganics (DF Qualifier	39 - 146 <b>RO) (GC)</b> <u>RL</u> 9.4	mg/Kg	<u>D</u>	04/16/24 17:07  Prepared 04/17/24 09:56	04/18/24 05:10 Analyzed 04/18/24 23:44	1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	el Range Org Result ND ND	ganics (DF Qualifier	39 - 146 <b>RO) (GC)</b> <u>RL</u> 9.4 47	mg/Kg	D	04/16/24 17:07  Prepared 04/17/24 09:56 04/17/24 09:56	04/18/24 05:10 Analyzed 04/18/24 23:44 04/18/24 23:44 Analyzed	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	88 El Range Org Result ND ND %Recovery 87	ganics (DF Qualifier Qualifier	39 - 146         RO) (GC)         RL         9.4         47         Limits         62 - 134	mg/Kg	<u>D</u>	04/16/24 17:07  Prepared 04/17/24 09:56 04/17/24 09:56 Prepared	04/18/24 05:10 Analyzed 04/18/24 23:44 04/18/24 23:44 Analyzed	1 Dil Fac 1 1
4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	el Range Or Result ND %Recovery 87 on Chromat	ganics (DF Qualifier Qualifier	39 - 146         RO) (GC)         RL         9.4         47         Limits         62 - 134	mg/Kg	D	04/16/24 17:07  Prepared 04/17/24 09:56 04/17/24 09:56 Prepared	04/18/24 05:10 Analyzed 04/18/24 23:44 04/18/24 23:44 Analyzed	1 Dil Fac 1 1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-12 2' Date Collected: 04/14/24 10:55 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 244			04/16/24 17:07	04/18/24 05:32	1
Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Kylenes, Total	ND		0.10	mg/Kg		04/16/24 17:07	04/18/24 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 05:32	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
		- · · ·		•• •	<b>_</b>	Prepared	Analyzed	
Analyte	Result	Qualifier	RL	Unit	D	Flepaleu	Analyzeu	Dil Fac
	Result ND	Qualifier		Unit mg/Kg	<u></u>	04/17/24 09:56	04/18/24 23:56	Dil Fac 1
Diesel Range Organics [C10-C28]		Qualifier				·		Dil Fac 1 1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND		8.6	mg/Kg		04/17/24 09:56	04/18/24 23:56	Dil Fac 1 1 Dil Fac
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] <b>Surrogate</b>	ND ND		8.6 43	mg/Kg		04/17/24 09:56 04/17/24 09:56	04/18/24 23:56 04/18/24 23:56	1 1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] <b>Surrogate</b> Di-n-octyl phthalate (Surr)	ND ND <b>%Recovery</b> 87	Qualifier	8.6 43 Limits 62 - 134	mg/Kg		04/17/24 09:56 04/17/24 09:56 <b>Prepared</b>	04/18/24 23:56 04/18/24 23:56 <b>Analyzed</b>	1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	ND ND %Recovery 87 Ion Chroma	Qualifier	8.6 43 Limits 62 - 134	mg/Kg	D	04/17/24 09:56 04/17/24 09:56 <b>Prepared</b>	04/18/24 23:56 04/18/24 23:56 <b>Analyzed</b>	1 1

Job ID: 885-2902-1

Lab Sample ID: 885-2902-9

Matrix: Solid

5

Page 166 of 206

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-12 4' Date Collected: 04/14/24 13:35 Date Received: 04/16/24 07:55

<b>Released to Imaging:</b> 7/15/2024 1:34:50 PM	Page 15 of 40

**Eurofins Albuquerque** 

5

#### Lab Sample ID: 885-2902-10 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 17:07	04/18/24 05:54	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Toluene	ND		0.048	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 17:07	04/18/24 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		39 - 146			04/16/24 17:07	04/18/24 05:54	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		04/17/24 09:56	04/19/24 00:08	1
			46	mg/Kg		04/17/24 09:56	04/19/24 00:08	1
Motor Oil Range Organics [C28-C40]	ND		40	iiig/itg				
Motor Oil Range Organics [C28-C40] Surrogate	ND %Recovery	Qualifier	Limits	ilig/itg		Prepared	Analyzed	Dil Fac
		Qualifier		ing/itg				Dil Fac
Surrogate	%Recovery 127		Limits 62 - 134	ingrig		Prepared		
Surrogate Di-n-octyl phthalate (Surr)	<u>%Recovery</u> 127		Limits 62 - 134	Unit	D	Prepared		

Page 167 of 206

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-13 2' Date Collected: 04/14/24 11:10 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 244			04/16/24 17:07	04/18/24 06:16	1
Method: SW846 8021B - Volat	lile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Kylenes, Total	ND		0.097	mg/Kg		04/16/24 17:07	04/18/24 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 06:16	1
	ol Bongo Or	nanics (DE	20) (GC)					
ivietnoa: 5w846 8015D - Dies	el Ranue Un							
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		-		Unit mg/Kg	<u>D</u>	Prepared 04/17/24 09:56	Analyzed 04/19/24 00:20	Dil Fac
Analyte Diesel Range Organics [C10-C28]	Result	-			<u>D</u>			Dil Fac 1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result ND	Qualifier	<b>RL</b> 10	mg/Kg	<u>D</u>	04/17/24 09:56	04/19/24 00:20	Dil Fac 1 1 Dil Fac
<b>Analyte</b> Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] <b>Surrogate</b>	Result ND ND	Qualifier		mg/Kg	<u>D</u>	04/17/24 09:56 04/17/24 09:56	04/19/24 00:20 04/19/24 00:20	1 1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	Result ND ND %Recovery 91	Qualifier Qualifier	RL           10           50           Limits           62 - 134	mg/Kg	<u>D</u>	04/17/24 09:56 04/17/24 09:56 <b>Prepared</b>	04/19/24 00:20 04/19/24 00:20 Analyzed	1 1
Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, Analyte	Result ND ND %Recovery 91	Qualifier Qualifier	RL           10           50           Limits           62 - 134	mg/Kg	D D	04/17/24 09:56 04/17/24 09:56 <b>Prepared</b>	04/19/24 00:20 04/19/24 00:20 Analyzed	1 1

5

Job ID: 885-2902-1

#### Lab Sample ID: 885-2902-11 Matrix: Solid

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-13 4' Date Collected: 04/14/24 13:40 Date Received: 04/16/24 07:55

<b>Released to Imaging:</b>	7/15/2024 1:34:50 PM

Job	ID:	885	-290

# Lab Sample ID: 885-2902-12

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/16/24 17:07	04/18/24 06:38	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 06:38	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:38	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 06:38	1
Xylenes, Total	ND		0.099	mg/Kg		04/16/24 17:07	04/18/24 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 06:38	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		04/17/24 09:56	04/19/24 00:32	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/17/24 09:56	04/19/24 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	108		62 - 134			04/17/24 09:56	04/19/24 00:32	-
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Page 17 of 40

5-2902-1

Page 169 of 206

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-14 0' Date Collected: 04/14/24 11:15 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		15 - 244			04/16/24 17:07	04/18/24 06:59	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Toluene	ND		0.047	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Xylenes, Total	ND		0.093	mg/Kg		04/16/24 17:07	04/18/24 06:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/16/24 17:07	04/18/24 06:59	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		04/17/24 09:56	04/19/24 00:45	1
	ND ND		9.2	mg/Kg mg/Kg		04/17/24 09:56 04/17/24 09:56		1 1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] <i>Surrogate</i>		Qualifier		00		•		1 1 <b>Dil Fac</b>
Motor Oil Range Organics [C28-C40]	ND	Qualifier	46	00		04/17/24 09:56	04/19/24 00:45	1 1 <b>Dil Fac</b> 1
Motor Oil Range Organics [C28-C40] <i>Surrogate</i> <i>Di-n-octyl phthalate (Surr)</i>	ND %Recovery 104		46 <u>Limits</u> 62 - 134	00		04/17/24 09:56 Prepared	04/19/24 00:45 <i>Analyzed</i>	1 1 <i>Dil Fac</i> 1
Motor Oil Range Organics [C28-C40] Surrogate	ND <u>%Recovery</u> 104		46 <u>Limits</u> 62 - 134	00		04/17/24 09:56 Prepared	04/19/24 00:45 <i>Analyzed</i>	1 1 Dil Fac 1 Dil Fac

Eurofins Albuquerque

5

Job ID: 885-2902-1

Matrix: Solid

Lab Sample ID: 885-2902-13

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-14 2' Date Collected: 04/14/24 11:25 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc		Qualifier	RL	Unit	D	Prepared	Applyzod	Dil Fac
Analyte		Quaimer				•	Analyzed	DIFAC
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 07:21	1
_ Method: SW846 8021B - Volat	tile Organic	Compound	ds (GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 17:07	04/18/24 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		39 - 146			04/16/24 17:07	04/18/24 07:21	1
Method: SW846 8015D - Dies	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		04/17/24 09:56	04/19/24 00:57	1
			48	mg/Kg		04/17/24 09:56	04/19/24 00:57	1
Motor Oil Range Organics [C28-C40]	ND		10	5 5				
Motor Oil Range Organics [C28-C40] Surrogate	ND %Recovery	Qualifier	Limits	5. 5		Prepared	Analyzed	Dil Fac
		Qualifier				<b>Prepared</b> 04/17/24 09:56	Analyzed 04/19/24 00:57	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery 100		Limits 62 - 134	5 5		<u> </u>		Dil Fac
Surrogate	<u>%Recovery</u> 100		Limits 62 - 134	Unit	D	<u> </u>		Dil Fac

Job ID: 885-2902-1

Matrix: Solid

5

Lab Sample ID: 885-2902-14

**Client: Vertex** Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-15 0' Date Collected: 04/14/24 11:30 Date Received: 04/16/24 07:55

Released to Imaging:	7/15/2024 1:34:50	PM Pag
0 0		

Eurofins Albuc	uerque

Method: SW846 8015D - Gaso	line Range	Organics (	GRO) (GC)					1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/16/24 17:07	04/18/24 07:43	1
Method: SW846 8021B - Volat Analyte	-	Compoun Qualifier	ds (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg	_ =	04/16/24 17:07	04/18/24 07:43	1
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Toluene	ND		0.049	mg/Kg		04/16/24 17:07	04/18/24 07:43	1
Xylenes, Total	ND		0.097	mg/Kg		04/16/24 17:07	04/18/24 07:43	4

Toluene	ND	0.049	mg/Kg
Xylenes, Total	ND	0.097	mg/Kg
Sumonoto	% December 1	ualifier Limits	
Surrogate	%Recovery Qι	iannei Linnis	
4-Bromofluorobenzene (Surr)		<u>39 - 146</u>	

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

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		04/17/24 09:56	04/19/24 01:09	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 09:56	04/19/24 01:09	
Surrogate	%Recovery 0	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	80		62 - 134			04/17/24 09:56	04/19/24 01:09	
Di-n-octyl phthalate (Surr)           Method: EPA 300.0 - Anions, I		ography -				04/17/24 09:56	04/19/24 0	1:09
on Chromatography Result Qualifier		1	Soluble	Unit	п	Prepared	Analyzed	Dil Fa

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120	5.1	mg/Kg			04/19/24 23:15	1

Job ID: 885-2902-1

#### Lab Sample ID: 885-2902-15 Matrix: Solid

Analyzed

Prepared

04/16/24 17:07 04/18/24 07:43

Dil Fac

1

5

4/22/2024

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Client Sample ID: BH24-15 2' Date Collected: 04/14/24 11:40 Date Received: 04/16/24 07:55

Method: SW846 8015D - Gasc	line Range	<b>Organics</b>	(GRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			04/16/24 17:07	04/18/24 08:05	1
_ Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 17:07	04/18/24 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			04/16/24 17:07	04/18/24 08:05	1
_ Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				•				
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		04/17/24 09:56	04/19/24 01:21	1
Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND ND		9.1 46			04/17/24 09:56 04/17/24 09:56	• • . • = .	1 1
		Qualifier		mg/Kg			• • . • = .	1 1 <i>Dil Fac</i>
Motor Oil Range Organics [C28-C40]	ND	Qualifier S1+	46	mg/Kg		04/17/24 09:56	04/19/24 01:21	1 1 <b>Dil Fac</b> 1
Motor Oil Range Organics [C28-C40] Surrogate	ND <b>%Recovery</b> 139	S1+	46 <u>Limits</u> 62 - 134	mg/Kg		04/17/24 09:56 Prepared	04/19/24 01:21 Analyzed	1 1 <b>Dil Fac</b> 1
Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND %Recovery 139	S1+	46 <u>Limits</u> 62 - 134	mg/Kg		04/17/24 09:56 Prepared	04/19/24 01:21 Analyzed	1 1 Dil Fac 1 Dil Fac

Job ID: 885-2902-1

Matrix: Solid

Page 173 of 206

# Lab Sample ID: 885-2902-16

5

**Eurofins Albuquerque** 

#### **QC Sample Results**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-342	0/1-A						Cli		ole ID: Method	
Matrix: Solid									Prep Type: To	
Analysis Batch: 3503									Prep Batcl	า: <mark>3420</mark>
	N	AB MB								
Analyte	Res	ult Qualifier	RL		Unit	D	F	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1	ND	5.0		mg/K	g	04/	16/24 17:07	04/17/24 23:00	1
	Ι	MB MB								
Surrogate	%Recove	ery Qualifier	Limits				F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		96	15 - 244				04/	16/24 17:07	04/17/24 23:00	1
Matrix: Solid Analysis Batch: 3503			Spike	1.09	LCS				Prep Type: To Prep Batcl %Rec	
			Added	-	Qualifier	Unit	D	%Rec	Limits	
Analyta				result	Quaimer	Unit	U	/onec	LIIIIIIIS	
				25.0				104	70 120	
Gasoline Range Organics [C6 -			25.0	25.9		mg/Kg		104	70 - 130	
Gasoline Range Organics [C6 -	LCS I			25.9		mg/Kg		104	70 - 130	
Analyte Gasoline Range Organics [C6 - C10] Surrogate	LCS I %Recovery (			25.9		mg/Kg		104	70 - 130	

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

Lab Sample ID: MB 885-34	420/1-A								Clie		le ID: Metho	
Matrix: Solid											Prep Type: 1 Prep Bate	
Analysis Batch: 3505	,	ив м	мв								Ртер Баш	
Analyte	-		Qualifier	RL		Unit		D	Pr	repared	Analyzed	Dil Fac
Benzene		ND -		0.025		mg/K	g	_	04/16	6/24 17:07	04/17/24 23:00	1
Ethylbenzene	1	ND		0.050		mg/K	g		04/16	6/24 17:07	04/17/24 23:00	1
Toluene	1	ND		0.050		mg/K	g		04/16	6/24 17:07	04/17/24 23:00	1
Xylenes, Total		ND		0.10		mg/K	g		04/10	6/24 17:07	04/17/24 23:00	1
	1	ив л	ИВ									
Surrogate	%Recov	ery G	Qualifier	Limits					Pi	repared	Analyzed	Dil Fac
									0.4.44	-	04/17/24 23:00	1
Lab Sample ID: LCS 885-3	3420/3-A	86		39 - 146			Clie			nple ID:	Lab Control	Sample
4-Bromofluorobenzene (Surr) Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505	3420/3-A	86			1.05	1.05	Clie			nple ID:	Lab Control Prep Type: 1 Prep Bato	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505	3420/3-A	86		Spike	-	LCS Qualifier			San	nple ID:	Lab Control Prep Type: 1 Prep Bato %Rec	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte	3420/3-A	86			-	LCS Qualifier	Unit			nple ID:	Lab Control Prep Type: 1 Prep Bato	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte Benzene	3420/3-A	86		Spike Added	Result		Unit mg/Kg		San	nple ID: 	Lab Control Prep Type: 1 Prep Bato %Rec Limits	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte Benzene Ethylbenzene	3420/3-A	86		Spike Added 1.00	<b>Result</b> 0.969		Unit		San	nple ID: <u>%Rec</u> 97	Lab Control Prep Type: 1 Prep Bato %Rec Limits 70 - 130	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte Benzene Ethylbenzene m,p-Xylene	3420/3-A	86		<b>Spike</b> <b>Added</b> 1.00 1.00	<b>Result</b> 0.969 0.972		Unit mg/Kg mg/Kg mg/Kg		San	<b>mple ID:</b> <u>%Rec</u> <u>97</u> 97	Lab Control Prep Type: 1 Prep Bato %Rec Limits 70 - 130 70 - 130	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte Benzene	3420/3-A	86		Spike Added 1.00 1.00 2.00	<b>Result</b> 0.969 0.972 1.95		<mark>Unit</mark> mg/Kg mg/Kg		San	<b>%Rec</b> 97 97 97	Lab Control Prep Type: 1 Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene	3420/3-A			Spike Added 1.00 2.00 1.00	<b>Result</b> 0.969 0.972 1.95 0.972		Unit mg/Kg mg/Kg mg/Kg		San	%Rec           97           97           97           97           97           97           97	Lab Control Prep Type: 1 Prep Bato %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Sample otal/NA
Lab Sample ID: LCS 885-3 Matrix: Solid Analysis Batch: 3505 Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene		LCS	fier	Spike Added 1.00 2.00 1.00	<b>Result</b> 0.969 0.972 1.95 0.972		Unit mg/Kg mg/Kg mg/Kg		San	%Rec           97           97           97           97           97           97           97	Lab Control Prep Type: 1 Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Sample otal/NA

4/22/2024

**Eurofins Albuquerque** 

#### **QC Sample Results**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

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

Lab Sample ID: MB 885-342	1/1 <b>-A</b>								Clie	ent Samp	ple ID: Me		
Matrix: Solid											Prep Typ		
Analysis Batch: 3573											Prep E	Batch	: 342′
	_	MB						_	_				
Analyte	Re		Qualifier			Unit		D		repared	Analyze		Dil Fac
Diesel Range Organics [C10-C28]		ND		10		mg/ł	-		•		04/18/24 2		
Motor Oil Range Organics [C28-C40]		ND		50		mg/ł	(g		04/1	//24 09:56	04/18/24 2	0:42	
		MB	MB										
Surrogate	%Recov	very	Qualifier	Limits					P	repared	Analyze	ed	Dil Fac
Di-n-octyl phthalate (Surr)		109		62 - 134					04/1	7/24 09:56	04/18/24 2	0:42	
Lab Sample ID: LCS 885-342	21/2-A						Cli	ent	Sar	nple ID:	Lab Cont	rol S	ample
Matrix: Solid											Prep Typ	e: To	tal/NA
Analysis Batch: 3573											Prep E	Batch	: 3421
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Diesel Range Organics				50.0	51.8		mg/Kg			104	60 - 135		
[C10-C28]													
	LCS	LCS	;										
Surrogate	%Recovery	Qua	lifier	Limits									
Di-n-octyl phthalate (Surr)	103			62 - 134									
				02 - 101									
	MS			02 - 10 1						Client S:	ample ID:	BH2/	L-15 2
Lab Sample ID: 885-2902-16	MS			02-707					(	Client Sa	ample ID: Pren Tyn		
Lab Sample ID: 885-2902-16 Matrix: Solid	MS			02-101					(	Client Sa	Prep Typ	e: To	tal/NA
Lab Sample ID: 885-2902-16		Sam	nde		MS	MS			(	Client Sa	Prep Typ Prep E	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573	Sample		•	Spike	-	MS Qualifier	Unit				Prep Typ Prep E %Rec	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte	Sample Result		•	Spike Added	Result	MS Qualifier	Unit ma/Ka			Client Sa	Prep Typ Prep E %Rec Limits	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573	Sample		•	Spike	-	-	Unit mg/Kg			%Rec	Prep Typ Prep E %Rec	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics	Sample Result	Qua	•	Spike Added	Result	-				%Rec	Prep Typ Prep E %Rec Limits	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28]	Sample Result ND	Qua MS	lifier	Spike Added	Result	-				%Rec	Prep Typ Prep E %Rec Limits	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28]	Sample Result ND MS	Qua MS	lifier	Spike Added 43.2	Result	-				%Rec	Prep Typ Prep E %Rec Limits	e: To	tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr)	Sample Result ND MS %Recovery 91	Qua MS	lifier	Spike Added 43.2 Limits	Result	-			D	<mark>%Rec</mark> 98	Prep Typ Prep E %Rec Limits 44 - 136	e: To Batch	tal/NA : 3421 
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16	Sample Result ND MS %Recovery 91	Qua MS	lifier	Spike Added 43.2 Limits	Result	-			D	<mark>%Rec</mark> 98	Prep Typ Prep E %Rec Limits 44 - 136	e: To Batch	tal/NA : 3421 
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16 Matrix: Solid	Sample Result ND MS %Recovery 91	Qua MS	lifier	Spike Added 43.2 Limits	Result	-			D	<mark>%Rec</mark> 98	Prep Typ Prep E %Rec Limits 44 - 136	e: To Batch BH24 e: To	tal/NA : 3421  I-15 2' tal/NA
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16	Sample Result ND MS %Recovery 91	Qua MS Qua	lifier	Spike           Added           43.2           Limits           62 - 134	<b>Result</b> 42.6	-			D	<mark>%Rec</mark> 98	Prep Typ Prep E %Rec Limits 44 - 136	e: To Batch BH24 e: To	tal/NA : 3421 
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16 Matrix: Solid	Sample Result ND MS %Recovery 91 MSD Sample	Qua MS Qua Sam	lifier	Spike Added 43.2 Limits	Result 42.6 MSD	Qualifier	mg/Kg		D	<mark>%Rec</mark> 98	Prep Typ Prep E %Rec Limits 44 - 136 ample ID: Prep Typ Prep E	e: To Batch BH24 e: To	tal/NA : 3421  tal/NA : 3421  RPE
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics	Sample Result ND MS %Recovery 91	Qua MS Qua Sam	lifier	Spike Added 43.2 <i>Limits</i> 62 - 134 Spike	Result 42.6 MSD	Qualifier	mg/Kg		_ <u>D</u>	<mark>≪Rec</mark> 98 –	Prep Typ Prep E %Rec Limits 44 - 136 ample ID: Prep Typ Prep E %Rec	e: To Batch BH24 e: To Batch	tal/NA : 3421 
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte	Sample Result ND MS %Recovery 91 MSD Sample Result ND	Qua MS Qua Sam Qua	lifier	Spike Added 43.2 Limits 62 - 134 Spike Added	Result 42.6 MSD Result	Qualifier	mg/Kg Unit		_ <u>D</u>	<u>%Rec</u> 98 Client Sa	Prep Typ Prep E %Rec Limits 44 - 136 ample ID: Prep Typ Prep E %Rec Limits	e: To Batch BH24 e: To Batch RPD	tal/NA : 3421 
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28]	Sample Result ND MS %Recovery 91 MSD Sample Result ND MSD	Qua MS Qua Sam Qua	lifier lifier nple lifier	Spike           Added           43.2           Limits           62 - 134           Spike           Added           44.4	Result 42.6 MSD Result	Qualifier	mg/Kg Unit		_ <u>D</u>	<u>%Rec</u> 98 Client Sa	Prep Typ Prep E %Rec Limits 44 - 136 ample ID: Prep Typ Prep E %Rec Limits	e: To Batch BH24 e: To Batch RPD	tal/NA : 3421 
Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28] Surrogate Di-n-octyl phthalate (Surr) Lab Sample ID: 885-2902-16 Matrix: Solid Analysis Batch: 3573 Analyte Diesel Range Organics [C10-C28]	Sample Result ND MS %Recovery 91 MSD Sample Result ND MSD %Recovery	Qua MS Qua Sam Qua	lifier lifier nple lifier	Spike Added 43.2 Limits 62 - 134 Spike Added	Result 42.6 MSD Result	Qualifier	mg/Kg Unit		_ <u>D</u>	<u>%Rec</u> 98 Client Sa	Prep Typ Prep E %Rec Limits 44 - 136 ample ID: Prep Typ Prep E %Rec Limits	e: To Batch BH24 e: To Batch RPD	tal/NA : 3421  I-15 2 tal/NA

Lab Sample ID: MB 880-78599/1-4 Matrix: Solid Analysis Batch: 78704	<b>X</b>					Client Sam	ple ID: Method Prep Type: S	
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg			04/19/24 08:50	1

**Eurofins Albuquerque** 

Page 175 of 206

Job ID: 885-2902-1

#### **QC Sample Results**

Page 176 of 206

Job ID: 885-2902-1

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

				,							
Lab Sample ID: LCS 880-78	599/2-A					Clie	nt Sa	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid									Prep T		
Analysis Batch: 78704											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	248		mg/Kg		99	90 - 110		
Lab Sample ID: LCSD 880-7	8500/2-1					Client Sa	mplo		o Control	Sample	
Matrix: Solid	000010-A						inpie	ID. Lat	Prep T		
Analysis Batch: 78704									i i cp i	, , , , , , , , , , , , , , , , , , , ,	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	248		mg/Kg		99	90 - 110	0	20
								Oliont (	Semala ID		40.01
Lab Sample ID: 885-2902-5	010							client S	Sample ID		
Matrix: Solid									Prep T	ype: So	
Analysis Batch: 78704	Comula	Commis	Calles	МС	ме				% Dee		
Amelyte	•	Sample	Spike	-	MS Qualifier	11		% <b>D</b> = =	%Rec		
Analyte Chloride	650	Qualifier	Added 251		Qualifier	Unit	D	%Rec 99	Limits		
Chionde	000		201	902		mg/Kg		99	90-110		
Lab Sample ID: 885-2902-5	MSD							Client S	Sample ID	: BH24	-10 2'
Matrix: Solid									Prep T		
Analysis Batch: 78704											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	650		251	894		mg/Kg		96	90 - 110	1	20
Lab Sample ID: MB 880-787	32/1-0						Clid	ont Sam	nple ID: M	othod I	Blank
Matrix: Solid									Prep T		
Analysis Batch: 78778									i i cp i	, , , , , , , , , , , , , , , , , , , ,	
Analysis Baton. For Fo		МВ МВ									
Analyte	Re	esult Qualifier	,	RL	Unit	I	о р	repared	Analy	zed	Dil Fac
Chloride		ND		5.0	mg/K	g -		•	04/19/24		1
						0					
Lab Sample ID: LCS 880-78	/32/2-A					Clie	nt Sa		: Lab Cor		
Matrix: Solid									Prep T	ype: So	
Analysis Batch: 78778			Calles		1.00				% Dee		
Analyta			Spike		LCS	Unit	<b>_</b>	% Baa	%Rec		
Analyte			Added 250	250	Qualifier	mg/Kg	D	%Rec 100	Limits 90 - 110		
			200	200		mg/ng		100	30-110		
Lab Sample ID: LCSD 880-7	8732/3-A				C	Client Sa	mple	ID: Lat	o Control	Sample	e Dup
Matrix: Solid							-		Prep T		
Analysis Batch: 78778											
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H Page 177 of 206

5

GC VOA Prep Batch: 3420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	5030C	
885-2902-2	BH24-08 2'	Total/NA	Solid	5030C	
885-2902-3	BH24-09 0'	Total/NA	Solid	5030C	
885-2902-4	BH24-09 2'	Total/NA	Solid	5030C	
885-2902-5	BH24-10 2'	Total/NA	Solid	5030C	
885-2902-6	BH24-10 4'	Total/NA	Solid	5030C	
885-2902-7	BH24-11 0'	Total/NA	Solid	5030C	
885-2902-8	BH24-11 2'	Total/NA	Solid	5030C	
885-2902-9	BH24-12 2'	Total/NA	Solid	5030C	
885-2902-10	BH24-12 4'	Total/NA	Solid	5030C	
885-2902-11	BH24-13 2'	Total/NA	Solid	5030C	
885-2902-12	BH24-13 4'	Total/NA	Solid	5030C	
885-2902-13	BH24-14 0'	Total/NA	Solid	5030C	
885-2902-14	BH24-14 2'	Total/NA	Solid	5030C	
885-2902-15	BH24-15 0'	Total/NA	Solid	5030C	
885-2902-16	BH24-15 2'	Total/NA	Solid	5030C	
MB 885-3420/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3420/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3420/3-A	Lab Control Sample	Total/NA	Solid	5030C	

#### Analysis Batch: 3503

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	8015D	3420
885-2902-2	BH24-08 2'	Total/NA	Solid	8015D	3420
885-2902-3	BH24-09 0'	Total/NA	Solid	8015D	3420
885-2902-4	BH24-09 2'	Total/NA	Solid	8015D	3420
885-2902-5	BH24-10 2'	Total/NA	Solid	8015D	3420
885-2902-6	BH24-10 4'	Total/NA	Solid	8015D	3420
885-2902-7	BH24-11 0'	Total/NA	Solid	8015D	3420
885-2902-8	BH24-11 2'	Total/NA	Solid	8015D	3420
885-2902-9	BH24-12 2'	Total/NA	Solid	8015D	3420
885-2902-10	BH24-12 4'	Total/NA	Solid	8015D	3420
885-2902-11	BH24-13 2'	Total/NA	Solid	8015D	3420
885-2902-12	BH24-13 4'	Total/NA	Solid	8015D	3420
885-2902-13	BH24-14 0'	Total/NA	Solid	8015D	3420
885-2902-14	BH24-14 2'	Total/NA	Solid	8015D	3420
885-2902-15	BH24-15 0'	Total/NA	Solid	8015D	3420
885-2902-16	BH24-15 2'	Total/NA	Solid	8015D	3420
MB 885-3420/1-A	Method Blank	Total/NA	Solid	8015D	3420
LCS 885-3420/2-A	Lab Control Sample	Total/NA	Solid	8015D	3420

#### Analysis Batch: 3505

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	8021B	3420
885-2902-2	BH24-08 2'	Total/NA	Solid	8021B	3420
885-2902-3	BH24-09 0'	Total/NA	Solid	8021B	3420
885-2902-4	BH24-09 2'	Total/NA	Solid	8021B	3420
885-2902-5	BH24-10 2'	Total/NA	Solid	8021B	3420
885-2902-6	BH24-10 4'	Total/NA	Solid	8021B	3420
885-2902-7	BH24-11 0'	Total/NA	Solid	8021B	3420
885-2902-8	BH24-11 2'	Total/NA	Solid	8021B	3420

**Eurofins Albuquerque** 

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### GC VOA (Continued)

#### Analysis Batch: 3505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-9	BH24-12 2'	Total/NA	Solid	8021B	3420
885-2902-10	BH24-12 4'	Total/NA	Solid	8021B	3420
885-2902-11	BH24-13 2'	Total/NA	Solid	8021B	3420
885-2902-12	BH24-13 4'	Total/NA	Solid	8021B	3420
885-2902-13	BH24-14 0'	Total/NA	Solid	8021B	3420
885-2902-14	BH24-14 2'	Total/NA	Solid	8021B	3420
885-2902-15	BH24-15 0'	Total/NA	Solid	8021B	3420
885-2902-16	BH24-15 2'	Total/NA	Solid	8021B	3420
MB 885-3420/1-A	Method Blank	Total/NA	Solid	8021B	3420
LCS 885-3420/3-A	Lab Control Sample	Total/NA	Solid	8021B	3420

#### GC Semi VOA

#### Prep Batch: 3421

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	SHAKE	
885-2902-2	BH24-08 2'	Total/NA	Solid	SHAKE	
885-2902-3	BH24-09 0'	Total/NA	Solid	SHAKE	
885-2902-4	BH24-09 2'	Total/NA	Solid	SHAKE	
885-2902-5	BH24-10 2'	Total/NA	Solid	SHAKE	
885-2902-6	BH24-10 4'	Total/NA	Solid	SHAKE	
885-2902-7	BH24-11 0'	Total/NA	Solid	SHAKE	
885-2902-8	BH24-11 2'	Total/NA	Solid	SHAKE	
885-2902-9	BH24-12 2'	Total/NA	Solid	SHAKE	
885-2902-10	BH24-12 4'	Total/NA	Solid	SHAKE	
885-2902-11	BH24-13 2'	Total/NA	Solid	SHAKE	
885-2902-12	BH24-13 4'	Total/NA	Solid	SHAKE	
885-2902-13	BH24-14 0'	Total/NA	Solid	SHAKE	
885-2902-14	BH24-14 2'	Total/NA	Solid	SHAKE	
885-2902-15	BH24-15 0'	Total/NA	Solid	SHAKE	
885-2902-16	BH24-15 2'	Total/NA	Solid	SHAKE	
MB 885-3421/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3421/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2902-16 MS	BH24-15 2'	Total/NA	Solid	SHAKE	
885-2902-16 MSD	BH24-15 2'	Total/NA	Solid	SHAKE	

#### Analysis Batch: 3573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Total/NA	Solid	8015D	3421
885-2902-2	BH24-08 2'	Total/NA	Solid	8015D	3421
885-2902-3	BH24-09 0'	Total/NA	Solid	8015D	3421
885-2902-4	BH24-09 2'	Total/NA	Solid	8015D	3421
885-2902-5	BH24-10 2'	Total/NA	Solid	8015D	3421
885-2902-6	BH24-10 4'	Total/NA	Solid	8015D	3421
885-2902-7	BH24-11 0'	Total/NA	Solid	8015D	3421
885-2902-8	BH24-11 2'	Total/NA	Solid	8015D	3421
885-2902-9	BH24-12 2'	Total/NA	Solid	8015D	3421
885-2902-10	BH24-12 4'	Total/NA	Solid	8015D	3421
885-2902-11	BH24-13 2'	Total/NA	Solid	8015D	3421
885-2902-12	BH24-13 4'	Total/NA	Solid	8015D	3421
885-2902-13	BH24-14 0'	Total/NA	Solid	8015D	3421

#### **Eurofins Albuquerque**

Page 178 of 206

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### GC Semi VOA (Continued)

#### Analysis Batch: 3573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-14	BH24-14 2'	Total/NA	Solid	8015D	3421
885-2902-15	BH24-15 0'	Total/NA	Solid	8015D	3421
885-2902-16	BH24-15 2'	Total/NA	Solid	8015D	3421
MB 885-3421/1-A	Method Blank	Total/NA	Solid	8015D	3421
LCS 885-3421/2-A	Lab Control Sample	Total/NA	Solid	8015D	3421
885-2902-16 MS	BH24-15 2'	Total/NA	Solid	8015D	3421
885-2902-16 MSD	BH24-15 2'	Total/NA	Solid	8015D	3421

#### HPLC/IC

#### Leach Batch: 78599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Soluble	Solid	DI Leach	
885-2902-2	BH24-08 2'	Soluble	Solid	DI Leach	
885-2902-3	BH24-09 0'	Soluble	Solid	DI Leach	
885-2902-4	BH24-09 2'	Soluble	Solid	DI Leach	
885-2902-5	BH24-10 2'	Soluble	Solid	DI Leach	
885-2902-6	BH24-10 4'	Soluble	Solid	DI Leach	
885-2902-7	BH24-11 0'	Soluble	Solid	DI Leach	
885-2902-8	BH24-11 2'	Soluble	Solid	DI Leach	
885-2902-9	BH24-12 2'	Soluble	Solid	DI Leach	
885-2902-10	BH24-12 4'	Soluble	Solid	DI Leach	
885-2902-11	BH24-13 2'	Soluble	Solid	DI Leach	
885-2902-12	BH24-13 4'	Soluble	Solid	DI Leach	
885-2902-13	BH24-14 0'	Soluble	Solid	DI Leach	
885-2902-14	BH24-14 2'	Soluble	Solid	DI Leach	
MB 880-78599/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78599/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78599/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-2902-5 MS	BH24-10 2'	Soluble	Solid	DI Leach	
885-2902-5 MSD	BH24-10 2'	Soluble	Solid	DI Leach	

#### Analysis Batch: 78704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-1	BH24-08 0'	Soluble	Solid	300.0	78599
885-2902-2	BH24-08 2'	Soluble	Solid	300.0	78599
885-2902-3	BH24-09 0'	Soluble	Solid	300.0	78599
885-2902-4	BH24-09 2'	Soluble	Solid	300.0	78599
885-2902-5	BH24-10 2'	Soluble	Solid	300.0	78599
885-2902-6	BH24-10 4'	Soluble	Solid	300.0	78599
885-2902-7	BH24-11 0'	Soluble	Solid	300.0	78599
885-2902-8	BH24-11 2'	Soluble	Solid	300.0	78599
885-2902-9	BH24-12 2'	Soluble	Solid	300.0	78599
885-2902-10	BH24-12 4'	Soluble	Solid	300.0	78599
885-2902-11	BH24-13 2'	Soluble	Solid	300.0	78599
885-2902-12	BH24-13 4'	Soluble	Solid	300.0	78599
885-2902-13	BH24-14 0'	Soluble	Solid	300.0	78599
885-2902-14	BH24-14 2'	Soluble	Solid	300.0	78599
MB 880-78599/1-A	Method Blank	Soluble	Solid	300.0	78599
LCS 880-78599/2-A	Lab Control Sample	Soluble	Solid	300.0	78599
LCSD 880-78599/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78599

#### **Eurofins Albuquerque**

Page 179 of 206

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

#### HPLC/IC (Continued)

#### Analysis Batch: 78704 (Continued)

Lab Sample ID 885-2902-5 MS	Client Sample ID BH24-10 2'	Prep Type Soluble	Matrix	Method 300.0	Prep Batch 78599
885-2902-5 MSD	BH24-10 2'	Soluble	Solid	300.0	78599

#### Leach Batch: 78732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2902-15	BH24-15 0'	Soluble	Solid	DI Leach	
885-2902-16	BH24-15 2'	Soluble	Solid	DI Leach	
MB 880-78732/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78732/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78732/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### **Analysis Batch: 78778**

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
885-2902-15	BH24-15 0'	Soluble	Solid	DI Leach	
885-2902-16	BH24-15 2'	Soluble	Solid	DI Leach	
MB 880-78732/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78732/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-78732/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalvaja Potobi 797	70				
nalysis datch: 707	10				
	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
ab Sample ID		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 78732
ab Sample ID 85-2902-15	Client Sample ID				
ab Sample ID 85-2902-15 85-2902-16	Client Sample ID BH24-15 0'	Soluble	Solid	300.0	78732
nalysis Batch: 787 Lab Sample ID 385-2902-15 385-2902-16 MB 880-78732/1-A LCS 880-78732/2-A	Client Sample ID BH24-15 0' BH24-15 2'	Soluble	Solid Solid	300.0 300.0	78732

4/22/2024

5
Job ID: 885-2902-1

# Lab Sample ID: 885-2902-1

Matrix: Solid

### Lab Sample ID: 885-2902-2

Lab Sample ID: 885-2902-3

Lab Sample ID: 885-2902-4

Matrix: Solid

Matrix: Solid

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

### Client Sample ID: BH24-08 0' Date Collected: 04/14/24 09:45 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 02:16
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 02:16
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:19
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 09:53

## Client Sample ID: BH24-08 2'

Date Collected: 04/14/24 09:55 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 02:38
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 02:38
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:31
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 09:58

### Client Sample ID: BH24-09 0'

#### Date Collected: 04/14/24 10:00 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 03:00
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 03:00
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 22:43
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:03

### Client Sample ID: BH24-09 2' Date Collected: 04/14/24 10:10 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 03:21

**Eurofins Albuquerque** 

Matrix: Solid

Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-09 2'

Date Collected: 04/14/24 10:10

Date Received: 04/16/24 07:55

**Client: Vertex** 

Job ID: 885-2902-1

# Lab Sample ID: 885-2902-4

Lab Sample ID: 885-2902-5

Matrix: Solid

Matrix: Solid

#### Batch Batch Dilution Prepared Batch Prep Type Method Factor Number Analyst or Analyzed Туре Run Lab Total/NA 5030C 3420 JP EET ALB 04/16/24 17:07 Prep Total/NA 8021B 04/18/24 03:21 3505 RA Analysis 1 EET ALB Total/NA Prep SHAKE 3421 PD EET ALB 04/17/24 09:56 8015D Total/NA Analysis 3573 JU EET ALB 04/18/24 22:55 1 Soluble DI Leach 78599 SMC EET MID 04/18/24 11:05 Leach 78704 SMC Soluble Analysis 300.0 1 EET MID 04/19/24 10:08

### Client Sample ID: BH24-10 2' Date Collected: 04/14/24 10:25 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 03:43
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 03:43
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:07
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:13

#### Client Sample ID: BH24-10 4' Date Collected: 04/14/24 13:30 Date Received: 04/16/24 07:55

Lab	Sample	ID:	885-2902-6

Lab Sample ID: 885-2902-7

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 04:05
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 04:05
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:20
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:27

### Client Sample ID: BH24-11 0' Date Collected: 04/14/24 10:30 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 04:49
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 04:49

**Eurofins Albuquerque** 

07 05 13

Job ID: 885-2902-1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 885-2902-7

Lab Sample ID: 885-2902-8

### Project/Site: Big Eddy Unit DI 9 35H Client Sample ID: BH24-11 0' Date Collected: 04/14/24 10:30

**Client: Vertex** 

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:32
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:32

### Client Sample ID: BH24-11 2' Date Collected: 04/14/24 10:40 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 05:10
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 05:10
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:44
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:46

### Client Sample ID: BH24-12 2' Date Collected: 04/14/24 10:55 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 05:32
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 05:32
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/18/24 23:56
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:51

#### Client Sample ID: BH24-12 4' Date Collected: 04/14/24 13:35 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 05:54
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 05:54
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:08

#### **Eurofins Albuquerque**

5

8

# Lab Sample ID: 885-2902-9

Lab Sample ID: 885-2902-10

Matrix: Solid

Matrix: Solid

Page 183 of 206

Released to	Imaging:	7/15/2024	1:34:50	PM

### Lab Chronicle

Job ID: 885-2902-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 885-2902-10

Lab Sample ID: 885-2902-11

Lab Sample ID: 885-2902-12

Lab Sample ID: 885-2902-13

### Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

### Client Sample ID: BH24-12 4' Date Collected: 04/14/24 13:35 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 10:56

### Client Sample ID: BH24-13 2' Date Collected: 04/14/24 11:10 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 06:16
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 06:16
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:20
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		5	78704	SMC	EET MID	04/19/24 11:01

### Client Sample ID: BH24-13 4' Date Collected: 04/14/24 13:40 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 06:38
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 06:38
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:32
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 11:06

### Client Sample ID: BH24-14 0' Date Collected: 04/14/24 11:15 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 06:59
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 06:59
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:45
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 11:10

### Eurofins Albuquerque

8

Job ID: 885-2902-1

# Lab Sample ID: 885-2902-14

Matrix: Solid

# 8 9 1(

Lab Sample ID: 885-2902-15 Matrix: Solid

Lab Sample ID: 885-2902-16

Matrix: Solid

Soliu

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

### Client Sample ID: BH24-14 2' Date Collected: 04/14/24 11:25 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 07:21
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 07:21
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 00:57
Soluble	Leach	DI Leach			78599	SMC	EET MID	04/18/24 11:05
Soluble	Analysis	300.0		1	78704	SMC	EET MID	04/19/24 11:15

## Client Sample ID: BH24-15 0'

Date Collected: 04/14/24 11:30 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 07:43
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 07:43
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 01:09
Soluble	Leach	DI Leach			78732	SMC	EET MID	04/19/24 11:37
Soluble	Analysis	300.0		1	78778	SMC	EET MID	04/19/24 23:15

### Client Sample ID: BH24-15 2'

#### Date Collected: 04/14/24 11:40 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8015D		1	3503	RA	EET ALB	04/18/24 08:05
Total/NA	Prep	5030C			3420	JP	EET ALB	04/16/24 17:07
Total/NA	Analysis	8021B		1	3505	RA	EET ALB	04/18/24 08:05
Total/NA	Prep	SHAKE			3421	PD	EET ALB	04/17/24 09:56
Total/NA	Analysis	8015D		1	3573	JU	EET ALB	04/19/24 01:21
Soluble	Leach	DI Leach			78732	SMC	EET MID	04/19/24 11:37
Soluble	Analysis	300.0		1	78778	SMC	EET MID	04/19/24 23:19

#### Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

**Eurofins Albuquerque** 

## **Accreditation/Certification Summary**

Client: Vertex Project/Site: Big Eddy Unit DI 9 35H

### Laboratory: Eurofins Albuquerque

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

thority	Progr	am	Identification Number	Expiration Date
/ Mexico	State		NM9425, NM0901	02-26-25
The following analyte	s are included in this repo	rt, but the laboratory is r	not certified by the governing authori	ty. This list may include analytes
for which the agency	does not offer certification	l.		
Analysis Method	Prep Method	Matrix	Analyte	
8015D	5030C	Solid	Gasoline Range Organics	s [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [0	C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organic	s [C28-C40]
8021B	5030C	Solid	Benzene	
8021B	5030C	Solid	Ethylbenzene	
8021B	5030C	Solid	Toluene	
8021B	5030C	Solid	Xylenes, Total	
gon	NELA	P	NM100001	02-26-25

Analysis Method	Prep Method	Matrix	Analyte
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	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

### Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date
Texas	NELA	2	T104704400-23-26	06-30-24
0,		,	not certified by the governing author	ity. This list may moldae and
for which the agency	does not offer certification			
Analysis Method	Prep Method	Matrix	Analyte	

**Eurofins Albuquerque** 

Job ID: 885-2902-1

.

Chair	1-of-CI	Chain-of-Custody Record	Turn-Arcund Time	lime				_		1		5		HALL ENVEDONMENTAL		Ē	-	Rece
Client Verter	c (Bill to X	Vertex (Bill to XTO Energy, Inc)	ZStandard	Z Rush S-day	5-day					ANALYSIS	ŝ			LABORATORY	5	20	<u>ہ</u> ا	vived
			Project Name					-				45	www nalienvironmental com	Ę				by O
Mai ing Address	22	On file	Big Eddy Unl	4 DI 9 35H			4901	4901 Hawkins NE	uns N	•	Albu	รายการ	ЧР. ЧР.	Albuquerque, NM 87109	g			CD:
			Project #				ļ∎ ⊥	505-345-3975	45.3		Fax	č	505-345-4107	4107				7/3/
Phone #			245-01314							Αn	alys	is Rei	Analysis Request			:		/202
email or Fax#			Project Manager	jer.		Ű.	(0)				205		(10	_				<u>4 11</u>
QAQC Package	e,		Sally Carttar			208		50/	SW	-	s "'o		92QY					:55:
C Standard		🙄 Leve. 4 (Fuli Validation)	SCarftar@vertex ca	tex ca		) s (			150	_	Эд '		////					: <b>04</b> .
Accreditation		Az Compilance	Sampler	L Pulman		∃₩1						•	_					AM
D NELAC	C Other		On tee:		°N C	. 73			_	_		(AC	_					
C 600 (Type)			# of Coolers:		107	38.												
-			Cooler Tempinoura cr.;	ŕ	しょうしょう	IM			_		_		_					
Date Time	Matrix	Sample Name	Container Type and #	Preservalive Type	HEAL NO.	1X318	108 H9T	9081 Pd	¢ <b>≈H</b> A9	8 AROR <sub>1</sub>	сі' н' в	8520 (S	) leiol				_	
<u>Cere24 1115</u>	5 Sol	BH24-14 0	1. 4oz jar		_13 _	×	×				×		_		_			
04 14 24 11 25	5 Soul	BH24-14 2'	1, 402 ja <u>r</u>		14	хI	×				×							
C4 14 24 1:30	Sa I	BH24-15 ()	1. 40Z Jar		15	×	×				×	-	_		•••			
04 4 24 11 40	[	BH24-15.2'	. 40z Jar			x	. ×				×				_			
	!																	
 	 				İ											_		-
-								_			-	_			-+			-
								_			+	- +		-	_	_		- <b>T</b>
l	 					_	+	-	Ţ	+	+	+	$\top$	+				
				:			+	-		+		-∔	-	+	+-			-1
Date Time H-15-14 07-18	Rei nquisned by	Ned by Manual -	Received by ONAULUL	en cra	Date Time UNATH UTUD	Ren Dire	Remarks: Direct Bill to XTO Energy, Inc.	2	ш 23	lergy	<u> </u>	}					]	
0416 Time 1962 1965	<u>«</u>	***	Received by	Cur.P.	4/16/24 7:5-5		NAPPESSS95991 Cost Center # 1140661001 CC.Sally Carttar (scarttar@vertex.ca) for Final Report.	Carter 1	31 1406 1 (Sc	6100 arttai	- ®	rtex.c	ia) (e:	r Final	Rep	ji,		<u> Page 1</u>
If recessa	N Sampes Su	Territer(a) may be a	Torraced logitier at	ored tro lagorator o	3 The serves as reported for sposs to by Arry subconfracted as a will be overly notated on the area year, report	8	1	845	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V. 67, 60 J	8	14. PO	aled o	Pre are	12	١.		88
	-																5	of 20
							11	10	9	8		6	5	4			-	)6

.

3	
lins A	
buqu	4
arque	5
Ī	6
	8
	9

10

g



	_	Chain of Custody Record	of Cust	tody R	RCD	3			P	n,				🔆 eurofins	_	
Phone 501 345-1975 Fax 505-345-4107										Bi.						Environment Yessing
Client Information (Sub Contract Lab)				- International Astronomy	heard, Andy	nd.			Ŷ	(1)0h Aurora	(4) (A)			230 VS 885-432 1		
ShippingRedewing	-1076			i Mai Jindiy	ineen:		ו שע andy intentanĝel eurotnaus co	8 7	7	New Mexico Version of the			Peg	Sage 1 (M 2		
Europhy Environment Testing South Centr					NELA	0.00	VELAP - Oregon NELAP -		r Terax, State - Now Mexico	ow Mean	8		885 is	, 2011 885-2902-1		
istian 12:1 W. Fienda Ave	Due Dirls Requested 4/72/2024	đ							lysit Requested				3	Preserveción Godera	3	
SA Midland	TAT Paquested (Saja)	Į			-	$\neg$	$\neg$			7			L			
245 X1																
17404 432-704-5440(Te)	8				}	<b>.</b> .										
	<b>0</b> 4									• •						
States States Unit D19 3514	l'ipject d a ben - oth					4643					_					
514	14000					),.u€							2010 2	1		
						24676					_		_			
			Semple Type		Fiikisre Am Mili	AOF#_							lunite			
Sample Identification - Client ID (Lab ID)	Sample Date	Samp <b>ie</b> Time	(C-comp. G-grab)	0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		<b>800</b> _0								Special In		
łU	X	K	-	<b>.</b> .	Ř								X			
Birza 08 01(885)/2902-1) V	4/14/24	URANSIN Cher	' 	ŝ		*							-			
BH24-G82-302-22 V	41' 4:20	uepuncin.		502		×					_		-			
0H24-09 37;8e5.2902.3) V	4.14.74	10 00 Mountain	İ	Solid		×							-		ĺ	
BH24-092 (885-2932-4)	4/° 4.24	0.01		S A		×					-		1	i		ļ
BH24-02-(885-2902-5) V	4.74.24	10 25	 	Soid		×				-			-		[	
BH74-10-4-(885-2902-6) V		13 30 Nationalist		Sold		×						·		i		 
BH24-1 0 (865 2902.7)	4.74	No. 10 30	! 	Sold		×			_				-			
анданти такаларана и такаларана	- 	01.01 01.01		Sold		×										ļ
BH24-12.21(085-2902-91 V	4.24	10 b5 Mountain	   	Sold		×						i	-		ļ	
Note Since Internets and above an extension range. Every summarian Teary Sour Cervel LCC passes in an entering or reflect any passion compares upo 1907/19) Only of sounds manual means from the State of Origin (and done for any passing the first and the summer we have be dependent to be Every for the summarian tear and the summarian tear and the summer of the summer and the summer of the summarian tear and the summer and	Topolog South Carlo one for an algoridge to find 11.0 analogo on the 11.0 analogo on	rai LLC placeto Arraine bengiar	an belowing	rindiacora pre-	ĉ.		eventer Eventer	aper our une recommente la	ranuar a		115 AD	pe sheri layo o		er och tudnar sin abortront. The serves stepped types to kenariase inder (rainer outlid), "the connect testing facts Canvel UK apprints of the inductions will be stored and the stored of the prints of the Case of Canves efforted to be a constructed for which a second test of the store of	Carlon and	shanges o
Possible Mezerd Identification					<u>چ</u>		nosat ( A	fed rately	5545	t r pas	aubiet.	10/ 10	N PAR	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	( month)	
Distribution Requested 1 11 111 IV Other (specify)	Primary Delymrable Rank ()	SING Rank D				Retur	E. Refum To Orent		13:500	Sisposal Sy Lab	5	۱ م	Archive For	50	Months	ŝ
Transa Ki Delana shed ha		7			Ŀ	{		contraction of the contraction								
		uax.		L	Ī	F	ľ		Ŀ	V botta	Verhod -N.Srigeman					
	12/21/24	4 14	30	Autouch A			5	Z	Æ	 i	(Nordan	•			Conpery	
		İ	_			Approx.	Ĉ		,		Dans'i er e	÷			Compton	
	Carlo I.	ĺ		Company		<sup>2</sup> c.eved by	*	ĺ			Dala T are	ì			COTONY	ĺ
Custody Seals Intect Custody Seal No	i					2004	0, lejernester, la coo		PO OTH RUNK		ſ				f	

Ver 26.08 2021

	Custody Seals Intact Custody Seat No A Yes A No	2γ.∩.(uy)*m≠d tv	!		Emply kil Retrausted by	inerversione vertreation (1, in) in Other (Specify)	Concontented	Linker Start and the second s Second second sec	Normal Month Mannak Str. Barran Mantara and a statement to an annual the set		виза-15 7 (885-2012-16) 🗸	BH2+15 01 (585 2902/15) √	BH24-14 27 (AB5-7802-14)	BH2e-1+ C1985-2902-131	BIIZ4-13 4' (986-7802-12)	DH24-13 2 (885 2902-11)	BH24-12 4' (885-7902-10)		Sample Identification - Cilent ID (Lab ID)		161e	Big Eddy Una (1935H		432-702-3440(TE))  €712	Pro-	Sido /p TX 79701	U-17 Misliano	1211 W Honda Ave	Eurofris Environment Festing South Centre	Shipping/Receiving	Clent Information (Seb Contract Lab)	4971 Maaking K5 Altuquengue NM 87109 Prong 595-345-3975 Fax 505-345 4107
		Turo,T.,T.	Date	10191 74		Primary Deliverable Rank		eersen in dat ng boart inger ver Georgen Luit effekter in ver Georgen Luit effekter in			4-14/24	4/14/24	4/14/24	4/14/24	4/14/24	4/14/24	4/14/24		Sample Date		LACSS	8850 279		2014	50		Let i frequencies de la company	4/22/2024	2.000	┢	Incolul	51100-
					Odie	able Rank (2		men Alexandra States - States Alexandra			1140 Moundain	Neuronain CC 17	5Z L.	11 15 Mournain	Meintain	T I I I	12 35 Meventarin	Ľ	Semple Time								144	3				Chain of Custody Record
		া	0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				A UMBERSTEP U Kytod Eressen Alfredsted accu			-							Preventation Code:		5												f Cust
1		Contraction	(contract)	Company Management	ļ			rindico, prafic plan ud Se ul estudiore en c			Send Send	Sold	망대의	Sara	Solid	3010	Seid		Time (	Matrix	1	- 194							7	andy I		ody Re
	- 21	6	ź	2	ane in	Spec		an an an an an an an an an an an an an a		H							×	Ż	Perform B 300_04GFI	407-840 1	10	-	Noj							feen	Freeman, Andy	ļ
- 1	ŝ	- 2 -						F 5 8 8				~ I.	_ <b>v</b> _ I	- X I	- <b>-</b> -						in 34	CAL)	4 Chan	0.04			_		173	12		
	1	Mag.	21 21	Ľ.	5	Dalinasi	Palvn	0 110 0			×	×	×	×	×	×						(74)	4 Chug	~~~					- Cristo	inget our	3	
	+nj4/11.44	Vocanned by	The second		ን ት የ		Ne Disposati ( J Pervin To Che	of stor Company of the Foundation of the Foundation Foundation			×	×	×	×	×	×							1 (5 hai)	~~~	_			Þ	NELAP Cregon NELA	inget aurofinsus	12	
	ooder Temperingen II 'S pos	hred br	A Party		ነ የ የ		Patryn To Client	обласон ситриался ирол он скил передаль Еленанта скал перет тер Бурнед Спан				×	×	×	× 	×							1014	~ <b>``</b>				Analya	5	andy liceman/get ourstinaus com	ty .	
	( <b>1</b> 8	HVHO BY	And my		1476	Requirem	Ne Disposel (A fee may board) Pervento Chent	idiatón Campiance upon our subcorr de la Fre Eurofais Envolumment Texas deze lacun tre Ligned Chemich Class				~	×	×	×							C × C ×	1040	~ <b>``</b>				Analysis Sec		inget auralingus com	12	
		HV#d b(	Anna Initiana and Anna Anna Anna Anna Anna Anna An		777	Requirem	Ne Disposal ( A fee may be assess Patron To Client C Disposa	offstor Company, applied our storopolet app open in the Baad is the outpart of the seg Sector open into the type of Chart of Clubby aftert				×	×	×	×							CAC:	4 Chuo	~~~	- <b>-</b> -			Analysis Sequeste		L		
	( <b>1</b> 8	Hoad PL			17V	Requirem	Ne Disposel ( A fee may be assessed if se Pative To Client C Osposer dy Le	offston Companies upon our subcordiace 4004000 etc. Com the Experient Environment of Excerp Seach Clerop - Com Intuit The Experied Chern of Classoft effecting on 444					×	×	×									~** 				Analysis Requested				
	( <b>1</b> 8			International Materia	1 1 V	Requirem	Ne Disposal ( A fee may be assessed if samples ) Patrin To Chent C Disposar dy Job	объём служите правое проложи прогодо неодине на Поляна. Кака подот так Карана Сланана Саказар Касас Сакада III, С. 1960а Кака подот так Карана Сланана Саказар иместарат на каказара					×	×	×						×_1			~** 				Analysis Requested	<ul> <li>Oregon NELAP - Texas State New Mexico</li> </ul>	L		d
	( <b>1</b> 8	Hoed by		the second second	V L	Requirem	Ne Disposal ( A fee may be assessed it samples are ref.	обации сигринов ирол он в достовае неодии на Пол на тре здер сил те били на билисто Ганхор бела Сигон II. С несилов у и сел политае курно Слати Сильор имакор он не соприност 30.5					×	×	×									~***				Analysis Requested		L		
	( <b>1</b> 8			International International	1 7 V	Requirem	Ne Disposal ( A fee may be assessed it samples are retained Patron To Clent [] Disposal dy Lob [] Archive	облікої сипрыялаєцького стадоровськородіх, на Піль на тре зіндетня і на к сил та Балами, волициталі Ганард Заслі Салар III. Сакондара з цата па і архі насил та курна Слап и Силькар в'язкар альна сапрынах з було ба б					x	×					Total Hum					~***					- Texas State New Menco	New Merice		Kanada Tantanak ke I
	( <b>1</b> 8			spinite I and a little	1 L L Vieland Success	Requirem	Ne Disposal ( A fee may be assessed it samples are relationed tengen ) Penvin To Chent Cloppsairdy Lob	of sitter during where upon our subcorread: secondary isThis is an pie shap mut is towardwy due the Bourd is terrainement if avang Seath Garay 1C. (Kourder) our dreament is data induit the Lyperd Chart of Clustery affecting on stad companyol (S. 5											Total Mum					~***					- Texas State New Menco	New Merice		Kanada Tantanak ke I
	( <b>1</b> 8			Harris I was a little	1 / 1. Vyloov a success	Requirem	Ne Disposel ( A fee may be assessed it samples are relatined tonger than 3. Perior To Chent Clospssirily Lob Close Archive For	offattor dumphanes upen our subordioud: 400-800 etc. This tampie atopimet is torwarded under (n due to the Booth Lemmur nor Torkang Kauth Great, 1, 10, 160-800 yr 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,											Total Mum										- Texas State New Menco	Ner Merce		Careta Taccara les II
Vel S	( <b>1</b> 8	(Зазк <sup>ат</sup> ить	000. 200		V L / Vylos a Sacara	Réquirements	Ne Dispose/ ( A feel may be assessed if semples are relationed longer than 3 month) Petryn To Chent Closposer by Leo Close Archive For Mon	offattor comparises upon our adoption; equally etc. This tempts adopting to towarded under (the estimation) of a first Experiment of the anglike th Caretal III. Vectorize a latter instruction with the provided in near the offatting of the and Caretal States of the angle of the angle of States The other Alexandria Careta St											Total Mum									Analyais Requested	- Texas State New Menco	New Merice		the urofins
Vet 64 u8 202	( <b>1</b> 8			Harris and we have have here a second and the second secon	V L . Vylos a Societ	Réquirements	te may be assessed if samples are re <u>C</u>	An other process in the second of the second of the second of the second provide a second of the																					- Texas State New Menco	New Merice		Kanada Tantanak ke I

Page 190 of 206

Eurofins Albuquerque

10

Job Number: 885-2902-1

List Source: Eurofins Albuquerque

### Login Sample Receipt Checklist

Client: Vertex

#### Login Number: 2902 List Number: 1 Creator: Casarrubias, Tracy

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

11

### Login Sample Receipt Checklist

Client: Vertex

<6mm (1/4").

Login Number: 2902 List Number: 2 Creator: Rodriguez, Leticia

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

Job Number: 885-2902-1

List Source: Eurofins Midland

List Creation: 04/18/24 11:59 AM

11

## **ATTACHMENT 5**

## **ATTACHMENT 6**

Location:	Big Eddy Unit DI 9 35H							
Spill Date:	12/16/2023							
	Area 1							
Approximate A	rea =	3611.80	sq. ft.					
Average Satura	tion (or depth) of spill =	0.50	inches					
Average Porosi	ty Factor =	0.03						
	VOLUME OF LEAK							
Total Crude Oil	=	2.34	bbls					
Total Produced Water =5.46 bbls								
TOTAL VOLUME OF LEAK								
Total Crude Oi	=	2.34	bbls					
Total Produced	l Water =	5.46	bbls					
	TOTAL VOLUME RECOVERED							
Total Crude Oi	=	2.10	bbls					
Total Produced	l Water =	4.90	bbls					

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

Page 196 of 206 QUESTIONS

Action 296618

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	296618
	Action Type:
	[C-141] Initial C-141 (C-141-y-Initial)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2335435491
Incident Name	NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	Big Eddy Unit DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

#### Incident Details

Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο
Has this release endangered or does it have a reasonable probability of endangering public health	Νο
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	Νο

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 2 BBL   Recovered: 2 BBL   Lost: 0 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 5 BBL   Recovered: 5 BBL   Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

District III

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

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	296618
	Action Type:
	[C-141] Initial C-141 (C-141-y-Initial)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of raluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Melanie Collins Title: Regulatory Analyst

QUESTIONS, Page 2

Action 296618

Page 197 of 206

Title: Regulatory Analyst Email: Melanie.Collins@exxonmobil.com Date: 12/20/2023

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

District III

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

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

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

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	296618
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the elease discovery date. What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface water Not answered. What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A continuously flowing watercourse or any other significant watercourse Not answered. Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Not answered An occupied permanent residence, school, hospital, institution, or church Not answered. A spring or a private domestic fresh water well used by less than five households Not answered. for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. A wetland Not answered. A subsurface mine Not answered. An (non-karst) unstable area Not answered. Categorize the risk of this well / site being in a karst geology Not answered. A 100-year floodplain Not answered. Did the release impact areas not on an exploration, development, production, or Not answered. storage site

#### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date

Requesting a remediation plan approval with this submission No

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Page 198 of 206

Action 296618

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

District III

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

District IV

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

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

CONDITIONS

Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number:
Midiand, 1X 79707	296618 Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)
CONDITIONS	
Created By Condition	Condition Date

### Created By Condition

scwells None CONDITIONS

Action 296618

12/20/2023

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

District III

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

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

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

QUESTIONS

Action 360908

QUESTIONS		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	360908	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

#### QUESTIONS

nAPP2335435491
NAPP2335435491 BIG EDDY UNIT DI 9 35H @ 0
Produced Water Release
Remediation Plan Received
1

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	BIG EDDY UNIT DI 9 35H
Date Release Discovered	12/16/2023
Surface Owner	State

#### Incident Details

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

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 2 BBL   Recovered: 2 BBL   Lost: 0 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 5 BBL   Recovered: 5 BBL   Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

District III

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

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

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

QUESTIONS, Page 2

Page 201 of 206

Action 360908

**QUESTIONS** (continued) Operator: OGRID: **XTO ENERGY, INC** 5380 6401 Holiday Hill Road Action Number Midland, TX 79707 360908 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 o	nly" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC No	
Reasons why this would be considered a submission for a notification of a major release	
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 or 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.	

	Name: Melanie Collins Title: Regulatory Analyst
I hereby agree and sign off to the above statement	Email: Melanie.Collins@exxonmobil.com
	Date: 12/20/2023

District I

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

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

District III

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

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

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

QUESTIONS, Page 3

Action 360908

Page 202 of 206

 QUESTIONS (continued)

 Operator:
 OGRID:

 6401 Holiday Hill Road
 5380

 Midland, TX 79707
 Action Number:

 360908
 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.

Between 100 and 500 (ft.)
NM OSE iWaters Database Search
No
nd the following surface areas:
Between 500 and 1000 (ft.)
Between 1 and 5 (mi.)
Greater than 5 (mi.)
Between ½ and 1 (mi.)
Between 1 and 5 (mi.)
Zero feet, overlying, or within area
High
Between ½ and 1 (mi.)
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 CI B) 2100 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 7551 GRO+DRO (EPA SW-846 Method 8015M) 5113 BTEX (EPA SW-846 Method 8021B or 8260B) 0.8 (EPA SW-846 Method 8021B or 8260B) Benzene 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 07/01/2024 On what date will (or did) the final sampling or liner inspection occur 04/26/2024 On what date will (or was) the remediation complete(d) 10/01/2024 What is the estimated surface area (in square feet) that will be reclaimed 6000 What is the estimated volume (in cubic yards) that will be reclaimed 400 What is the estimated surface area (in square feet) that will be remediated 5137 What is the estimated volume (in cubic yards) that will be remediated 400 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 measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsibility adjusted in accordance with the physical realities encountered during remediation. If the responsibility adjusted in accordance with the physical realities encountered during remediation. If the responsibility adjusted in accordance with the physical realities encountered during remediation. If the responsibility adjusted in accordance with the physical realities encountered during remediation.

District I

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

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

District III

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

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

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

QUESTIONS, Page 4

Action 360908

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	360908	
	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 HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. 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. Name: Alan Romero Title: Regulatory Analyst I hereby agree and sign off to the above statement Email: alan.romero1@exxonmobil.com Date: 07/03/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

District III

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

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

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

QUESTIONS, Page 5

Action 360908

QUESTIONS (continued)	
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	360908
	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

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

District III

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

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

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

QUESTIONS, Page 6	

Page 205 of 206

Action 360908

QUESTIONS (continued)		
Operator: XTO ENERGY, INC	OGRID: 5380	
6401 Holiday Hill Road Midland, TX 79707	Action Number: 360908	
	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.}	

No

#### **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

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

District III

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

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

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

CONDITIONS

Action 360908

CONDITIONS	
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 360908
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
CONDITIONS	

Created By	Condition	Condition Date
scwells	Remediation plan conditionally approved. A deferral will have to be requested after carrying out the remediation. Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. The deferral request must specify which sample points are being requested for deferral including an explanation as to why the contaminants can't be removed. Excavate to the maximum extent practical and then, if for instance, it's a sidewall that can't be further excavated due to production equipment, then request a deferral for that sample point(s) in your resubmission. Submit report by 10/14/2024.	7/15/2024