Volume calculator

There was no volume calculator prepared when the spill occurred.

Incident Number: nAB1616056900



Release Assessment and Closure

Aldabra 25 Fed #006H & #007H

Section 25, Township 23 South, Range 31 East

API: 30-015-38602

County: Eddy

Vertex File Number: 23E-04614

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

June 2024

Release Assessment and Closure June 2024

Release Assessment and Closure Aldabra 25 Fed #006H & #007H Section 25, Township 23 South, Range 31 East

API: 30-015-38602 County: Eddy

Prepared for:

Devon Energy Production Company, LP 6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2

811 S. 1st Street Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, New Mexico 88220

Stephanie McCarty May 31, 2024

ENVIRONMENTAL TECHNOLOGIST, REPORTING

Stephanie McCarty, B.Sc. Date

kent stallings P.G.

June 07, 2024

Kent Stallings, P.G. SENIOR GEOLOGIST, REPORT REVIEW Date

Release Assessment and Closure June 2024

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Release Assessment and Closure June 2024

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Release Assessment and Closure June 2024

1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for an oil and produced water release that occurred on June 6, 2016, at Aldabra 25 Fed #006H & #007H API: 30-015-38602 (hereafter referred to as the "site"). Devon submitted initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) District 2 on June 7, 2016. Incident ID number nAB1616056900 was assigned to this incident.

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

2.0 Incident Description

The June 6, 2016, release occurred when the horizontal separator manway gasket failed, resulting in a release on pad and as an overspray. The incident was reported on June 7, 2016, and involved the release of approximately 25 barrels (bbl.) of oil. Approximately 15 bbl. of oil were recovered during the initial clean-up.

3.0 Site Characteristics

The site is located approximately 22.3 miles southeast of Malaga, New Mexico, at 32.1607, - 103.4335 (Google Inc., 2023). The legal location for the site is Section 25, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production, and storage. The following sections specifically describe the release area at the site on or in proximity to the constructed pad.

The surrounding landscape is associated with upland landforms with elevations ranging between 2,842 and 4,500 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with shrubs. The historical plant community is dominated by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus, S. contractus, S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*; United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

The surface geology at the site primarily comprises Qep – Eolian and piedmont deposits from the Holocene to middle Pleistocene (New Mexico Bureau of Geology and Mineral Resources, 2023) and the soil at the site is characterized as

Release Assessment and Closure June 2024

fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Additional soil characteristics include a drainage class of excessively drained with a very negligible runoff class. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The nearest active well to the site are New Mexico Office of the State Engineer (NMOSE) exploratory borehole C-04790-POD-1, located approximately 0.39 miles west of the site, drilled on February 6, 2024 (United States Geological Survey, 2023). The borehole was advanced to a depth of 55 feet. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an Solinst Interface Meter probe model 122 was utilized to determine whether groundwater was present at the conclusion of the 72 hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned according to the WD-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Documentation related to the exploratory borehole is included in Appendix A.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a riverine located approximately 4.6 miles northwest of the site (United States Fish and Wildlife Service, 2023).

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

Release Assessment and Closure June 2024

Table 1.	Closure Criteria Determination		
	e: Aldabra 25 Fed #006H & #007H Battery dinates: 32.2686806,-103.7263489	X: 619955.295	Y: 3570929.433
	fic Conditions	Value	Unit
one open	Depth to Groundwater (nearest reference)	> 55	feet
	Distance between release and nearest DTGW	2,054	feet
1	reference	0.39	miles
	Date of nearest DTGW reference measurement	Februar	y 6, 2024
	Within 300 feet of any continuously flowing	24.506	
2	watercourse or any other significant watercourse	24,506	feet
3	Within 200 feet of any lakebed, sinkhole or playa	27.150	feet
3	lake (measured from the ordinary high-water mark)	27,150	reet
4	Within 300 feet from an occupied residence, school,	25,113	feet
	hospital, institution or church	25,115	1001
	i) Within 500 feet of a spring or a private, domestic		
_	fresh water well used by less than five households	NA	feet
5	for domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring	49,213	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	10,950	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	56,847	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	37,683	feet
	Within a 100-year Floodplain	No	year
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	34,641	feet
11	Soil Type	fine	sands
12	Ecological Classification	Kermit-Berino fine	sands, 0-3% slopes
13	Geology		ер
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

Release Assessment and Closure June 2024

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

Table 2. Closure Criteria for Soils Impacted	l by a Release	
Minimum depth below any point within the horizontal boundary of the release to groundwater	Constituent	l i maia
less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
51 feet - 100 feet	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - total dissolved solids

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

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was started on August 25, 2023, and completed on April 29, 2024, which identified the area of the releases specified in the initial C-141 Reports and estimated the approximate volume of the release. The impacted area was determined to be approximately 250 feet long and 126 feet wide; the total affected area was 13,552 square feet (Figure 1). Overspray was reported on vegetation to the northeast but no exceedances to criteria were found in the vegetation during characterization. Initial characterization field screening results are presented in Table 3. Laboratory Report Number 2312374 (Appendix D) contains data related to a separate incident from incident nAB1616056900 for sample points BH23-12, BH23-13, BH23-14, BH23-15 and BH23-16. The Daily Field Reports (DFRs) associated with the site inspection are included in Appendix B.

Remediation efforts began on April 9, 2024, and were finalized on April 29, 2024. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 15 sample points and consisted of analysis using Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons), electrical conductivity meter and silver nitrate titration (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 2 to 10 feet below ground surface. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix B

Notification that confirmatory samples were being collected on April 19, 2024, was provided to the NMOCD on April 16, 2024, and is included in Appendix C. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 15 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins Albuquerque, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix D. All confirmatory samples collected and analyzed were below closure criteria for the site.

Release Assessment and Closure June 2024

6.0 Closure Request

The release area was fully delineated, remediated, and backfilled with local soils by April 29, 2024. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "51 - 100 feet to groundwater". Based on these findings, Devon Energy Production Company, LP requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346.814.1413 or kstallings@vertex.ca.

7.0 References

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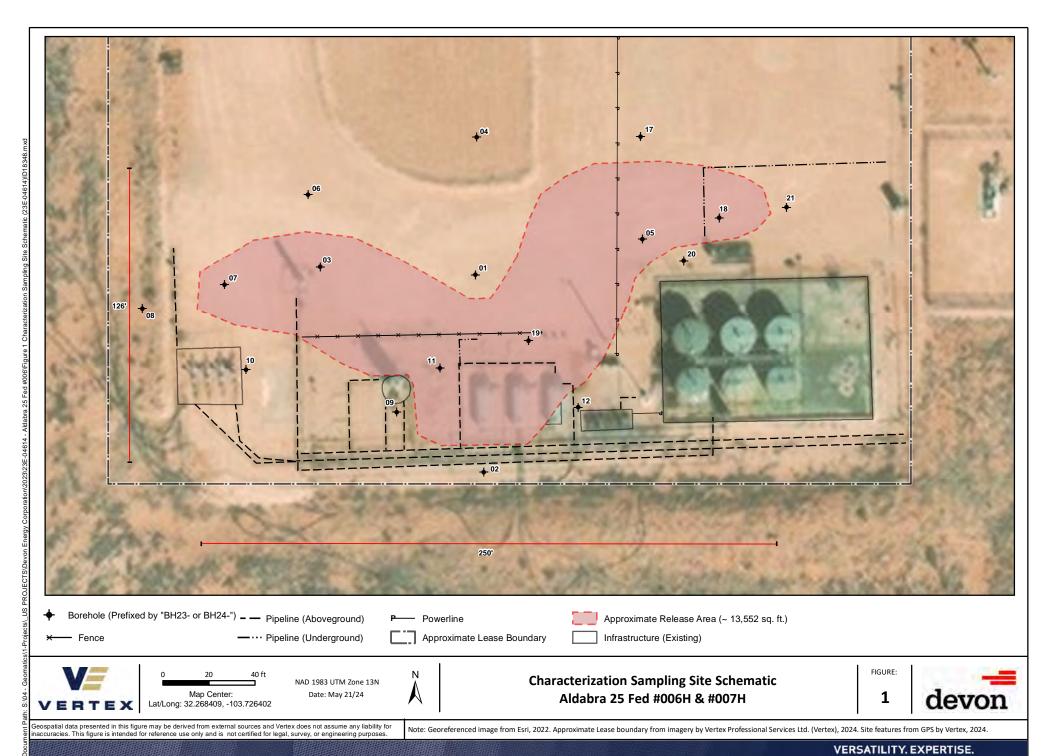
Release Assessment and Closure June 2024

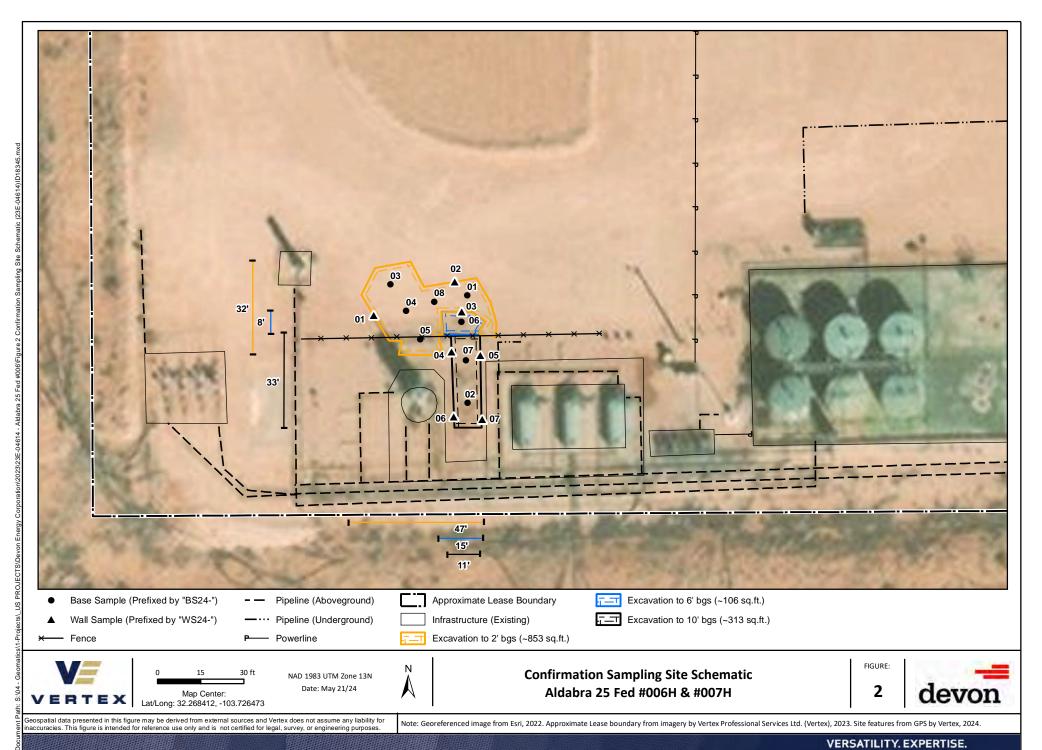
8.0 Limitations

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

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

FIGURES





TABLES

Client Name: Devon Energy Production Company, LP Site Name: Aldabra 25 Federal #006H & #007H

NMOCD Tracking #: nAB1616056900

Project #: 23E-04614

Lab Reports: 2308F29, 2312269, 2312374, 2312527, 2402007, 885-2899-1 and 885-3646-1

	Table	3. Initial Characteriza	ation Sam	ple Field S	creen and	Laborato	rv Results	- Depth to	o Groundy	vater 51 -	100 feet b	gs	
	Sample Desc			eld Screeni				-	eum Hydro			<u> </u>	
						Vol	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene (mg/kg)	(88/8) (Saptember (1991)	ි Gasoline Range Organics ලි (GRO)	Diesel Range Organics (DRO)	স্ত্র Motor Oil Range Organics ক্রি (MRO)	(gkO + DRO)	স্ত্র Total Petroleum স্ত্র Hydrocarbons (TPH)	(88/ Chloride Concentration
	0	August 25, 2023	-	0	476	ND	ND	ND	ND	ND	ND	ND	300
	2	August 25, 2023	-	24	0	ND	ND	ND	ND	ND	ND	ND	ND
BH23-01	4	August 25, 2023	_	12	0	ND	ND	ND	ND	ND	ND	ND	ND
	6	August 25, 2023	-	15	0	ND	ND	ND	ND	ND	ND	ND	ND
	0	August 25, 2023	-	0	0	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	2	August 25, 2023	-	0	0	ND	ND	ND	ND	ND	ND	ND	ND
D1122 02	0	August 25, 2023	-	63	0	ND	ND	ND	920	820	920	1740	ND
BH23-03	2	August 25, 2023	0	25	0	ND	ND	ND	ND	ND	ND	ND	ND
D1133 04	0	August 25, 2023	-	8	0	ND	ND	ND	ND	ND	ND	ND	ND
BH23-04	2	August 25, 2023	-	12	0	ND	ND	ND	ND	ND	ND	ND	ND
	0	April 10, 2024	-	-	1,200	ND	ND	ND	ND	ND	ND	ND	1000
BH23-05	2	April 9, 2024	-	-	1,200	ND	ND	ND	ND	ND	ND	ND	1300
	9	April 11, 2024	-	-	1,655	ND	ND	ND	ND	ND	ND	ND	1600
D1122 06	0	December 5, 2023	0	21	150	ND	ND	ND	ND	ND	ND	ND	ND
BH23-06	2	December 5, 2023	0	42	57	ND	ND	ND	ND	ND	ND	ND	ND
DU122 07	0	December 4, 2023	0	67	1,506	ND	ND	ND	ND	ND	ND	ND	2200
BH23-07	2	December 4, 2023	0	42	414	ND	ND	ND	ND	ND	ND	ND	250
	0	December 4, 2023	0	89	119	ND	ND	ND	ND	ND	ND	ND	63
BH23-08	2	December 4, 2023	0	33	144	ND	ND	ND	ND	ND	ND	ND	87
	0	December 5, 2023	0	27	116	ND	ND	ND	ND	ND	ND	ND	ND
BH23-09	2	December 5, 2023	0	30	47	ND	ND	ND	ND	ND	ND	ND	ND
DU22 40	0	December 4, 2023	0	60	187	ND	ND	ND	ND	ND	ND	ND	130
BH23-10	2	December 4, 2023	0	30	34	ND	ND	ND	ND	ND	ND	ND	ND
	0	December 5, 2023	0	28	112	ND	ND	ND	370	870	370	1240	ND
	2	December 5, 2023	0	1,078	69	ND	ND	ND	940	790	940	1730	ND
	4	December 5, 2023	0	8,320	ND	ND	ND	ND	1200	1100	1200	2300	ND
	5	December 5, 2023	0	7,490	-	ND	ND	ND	1900	1700	1900	3800	ND
DU22 44	6	December 6, 2023	1	1,164	ND	ND	ND	ND	3500	2900	3500	6400	ND
BH23-11	8	December 6, 2023	6	1,134	40	ND	ND	ND	2200	1600	2200	3800	97
	9	December 6, 2023	2	1,175	141	ND	ND	ND	2800	1800	2800	4600	140
	10	January 30, 2024	0	-	1,418		-	-	-	-		-	
	12	January 30, 2024	0	-	1,281	ND	ND	ND	ND	ND	ND	ND	1100
	13.5	January 30, 2024	0	11	149	ND	ND	ND	ND	ND	ND	ND	110
BH23-12	0	December 5, 2023	0	32	121	ND	ND	ND	ND	ND	ND	ND	ND
2.123 12	2	December 5, 2023	0	13	96	ND	ND	ND	ND	ND	ND	ND	ND
BH23-13	0	December 5, 2023	0	-	1,597	ND	ND	ND	11	ND	11	11	2300
223 13	2	December 5, 2023	0	-	421	ND	ND	ND	ND	ND	ND	ND	290
BH23-14	0	December 5, 2023	0	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 5, 2023	0	33	43	ND	ND	ND	ND	ND	ND	ND	ND
BH23-15	0	December 5, 2023	0	20	443	ND	ND	ND	ND	ND	ND	ND	480
	2	December 5, 2023	0	1	370	ND	ND	ND	ND	ND	ND	ND	300
BH23-16	0	December 5, 2023	0	44	124	ND	ND	ND	13	ND	13	13	ND
	2	December 5, 2023	0	7	80	ND	ND	ND	ND	ND	ND	ND	ND
BH24-17	0	April 10, 2024	-	115	267	ND	ND	ND	ND	ND	ND	ND	360
	2	April 10, 2024	-	61	466	ND	ND	ND	ND	ND	ND	ND	410
BH24-18	0	April 10, 2024	-	84	84	ND	ND	ND	ND	ND	ND	ND	940
	2	April 10, 2024	-	29	215	ND	ND	ND	ND	ND	ND	ND	370
BH24-19	0	April 10, 2024	-	279	236	- ND	- ND	-	- 20	- ND	-	-	- 440
BH24-20	0 2	April 11, 2024 April 11, 2024	-	240 100	616 190	ND ND	ND ND	ND ND	20 ND	ND ND	20 ND	20 ND	440 120
L		April 11, 2024		100	130	שאו	טאו	אוט	טאו	טאו	שאו	טאו	120



Client Name: Devon Energy Production Company, LP Site Name: Aldabra 25 Federal #006H & #007H

NMOCD Tracking #: nAB1616056900

Project #: 23E-04614

Lab Reports: 2308F29, 2312269, 2312374, 2312527, 2402007, 885-2899-1 and 885-3646-1

	Table	3. Initial Characteriz	ation Sam	ple Field S	creen and	Laborato	ry Results	- Depth to	o Groundy	vater 51 -	100 feet b	gs	
	Sample Desc	ription	Fi	Field Screening			Petroleum Hydrocarbons						
						Vol	atile			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)
BH24-21	0	April 29, 2024	-	43	568	ND	ND	ND	ND	ND	ND	ND	500
01124-21	2	April 29, 2024	-	46	575	ND	ND	ND	ND	ND	ND	ND	360

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



[&]quot;-" indicates not analyzed/assessed

Client Name: Devon Energy Production Company, LP Site Name: Aldabra 25 Federal #006H & #007H Battery

NMOCD Tracking #: nAB1616056900

Project #: 23E-04614 Lab Report: 885-3291-1

	Table 4. Co	onfirmation Sample	e Field Scr	een and L	aboratory	Results - I	Depth to G	roundwa	ter 51 - 10	0 feet bgs		
	Sample Descri	iption	Field Sc	reening			Petrole	eum Hydro	carbons			
					Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	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)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS24-01	0 -2'	April 19, 2024	825	157	ND	ND	ND	480	270	480	750	130
WS24-02	0 - 2'	April 19, 2024	155	230	ND	ND	ND	38	ND	38	38	280
WS24-03	2 - 6'	April 19, 2024	120	374	ND	ND	ND	88	53	88	141	290
WS24-04	0 - 10'	April 19, 2024	773	229	ND	ND	ND	780	510	780	1290	110
WS24-05	0 - 10'	April 19, 2024	325	170	ND	ND	ND	190	130	190	320	280
WS24-06	0 - 10'	April 19, 2024	725	355	ND	ND	ND	300	260	300	560	260
WS24-07	0 - 10'	April 19, 2024	381	176	ND	ND	ND	240	190	240	430	94
BS24-01	2'	April 19, 2024	347	447	ND	ND	ND	360	170	360	530	360
BS24-02	10'	April 19, 2024	668	2,856	ND	ND	ND	280	260	280	540	2300
BS24-03	2'	April 19, 2024	573	294	ND	ND	ND	140	110	140	250	180
BS24-04	2'	April 19, 2024	130	83	ND	ND	ND	44	ND	44	44	74
BS24-05	2'	April 19, 2024	23	82	ND	ND	ND	ND	ND	ND	ND	ND
BS24-06	6'	April 19, 2024	325	402	ND	ND	ND	380	180	380	560	290
BS24-07	10'	April 19, 2024	218	780	ND	ND	ND	170	140	170	310	760
BS24-08	2'	April 19, 2024	361	233	ND	ND	ND	250	130	250	380	200

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



[&]quot;-" indicates not analyzed/assessed

APPENDIX A – Closure Criteria Research Documentation

	riteria Determination e: Aldabra 25 Fed #006H & #007H Battery		
	rdinates: 32.2686806,-103.7263489	X: 619955.295	Y: 3570929.433
-	ific Conditions	Value	Unit
•	Depth to Groundwater (nearest reference)	> 55	feet
1	Distance between release and nearest DTGW reference	2,054	feet
_		0.39	miles
	Date of nearest DTGW reference measurement	Febru	ary 6, 2024
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	24,506	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	27,150	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	25,113	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	NA	feet
	ii) Within 1000 feet of any fresh water well or spring	49,213	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	10,950	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8	Distance between release and nearest registered mine	56,847	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	37,683	feet
40	Within a 100-year Floodplain	No	year
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	34,641	feet
11	Soil Type	fir	ne sands
12	Ecological Classification	Kermit-Berino fi	ne sands, 0-3% slope
13	Geology		Qep
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'



								1				
NO	OSE POD NO. (W C4790-POD1	ELL NO.)		WELL TAG ID NO C4790),		C04790	(S).			
OCATI	WELL OWNER N Devon Energy							PHONE (OPT	IONAL)			
1. GENERAL AND WELL LOCATION	WELL OWNER M 205 E Bender							CITY Hobbs		STATE NM 88	240	ZIP
AND V	WELL		DE	GREES 32	MINUTES 16	SECOND 6.708		* ACCURACY	Y REQUIRED: ONE TEN	TH OF A SECON	D	
ERAL	LOCATION (FROM GPS)		NGITUDE	-103	43	59.55	N 6 W		QUIRED: WGS 84			
1. GEN	DESCRIPTION R	ELATIN	IG WELL LOCATION TO	STREET ADDRE	ESS AND COMMO	N LANDMAR	KS – PL	SS (SECTION, TO	OWNSHJIP, RANGE) WI	IERE AVAILABL	E	
	LICENSE NO.		NAME OF LICENSED		Jason Maley				NAME OF WELL DR	ILLING COMPAN		
		TEED	DRILLING ENDED		APLETED WELL (I	ers I r	OBE HO	LE DEPTH (FT)	DEPTH WATER FIR			
	DRILLING STAR 2-6-24	IED	2-6-24	DEPTH OF COM	55'	1)	OKE IIC	55'	DEFIN WATER FIR	Dry	ED (F1)	
z	COMPLETED WI	ELL IS:	ARTESIAN *add Centralizer info bel	DRY HOLE	E SHALLO	OW (UNCONI	INED)		WATER LEVEL IPLETED WELL	O' DATE S	2-10-	MEASURED 24
TIO	DRILLING FLUII):	✓ AIR	MUD	ADDITI	VES - SPECIF	Y:					
RMA	DRILLING METI	IOD: 🗸	ROTARY HAMN	MER CABL	ETOOL 🔲 OTI	HER – SPECIF	Y:		CHECK INSTAI	HERE IF PITLES	S ADAP	TER IS
NFC	DEPTH (fee	t bgl)	BORE HOLE	CASING N	MATERIAL AN	D/OR	Ċ	ASING	CASING	CASING W	ALL	SLOT
SING	FROM	ТО	DIAM (inches)		GRADE (include each casing string, and note sections of screen)			NECTION TYPE bling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)		SIZE (inches)
C a	0	45'	6"	2"	PVC SCH40			Thread	2"	SCH40		N/A
2. DRILLING & CASING INFORMATION	45'	55'	6"	2"	PVC SCH40		, T	Thread	2"	SCH40		.02
2. DI												
				LIST ANNIH	AR SEAL MATE	ERIAL AND	GRAVE	L PACK SIZE-				
	DEPTH (fee	t bgl)	BORE HOLE	2.5.7101		BY INTERVA			AMOUNT		ETHO	
TERIAL	FROM	TO	DIAM. (inches)	*(if using Cen	None Pull	ed and plug		e spacing below	(cubic feet)	P1	ACEN	ENI
LAR MA						_						
3. ANNULAR MATERIAL												
	OSE INTERNA	L USE							0 WELL RECORD	& LOG (Version	on 09/22	2/2022)
-	E NO.				POD N	O.		TRN			£., ==	ron:
LOC	CATION						- 1	WELL TAG I	D NO.		PAGE	1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	40'	40'	Red dirt with small rocks	Y VN	
	40'	55'	15'	Tan fine sand with small rocks	Y ✓N	
					Y N	
					Y N	
19					Y N	
T					Y N	
WEI					Y N	
OF					Y N	
507					Y N	
COLE					Y N	
TO					Y N	
GEC					Y N	
4. HYDROGEOLOGIC LOG OF WELL					Y N	
НУІ					Y N	
4.					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD U				TOTAL ESTIMATED WELL YIELD (gpm):	0
ISION	WELL TES			CH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER		
PERVISI	MISCELLA	NEOUS IN	FORMATION:			
TEST; RIG SUPERVI						
S. TES	PRINT NAM	ИE(S) OF D	PRILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	TRUCTION OTHER T	HAN LICENSEE:
6. SIGNATURE	CORRECT	RECORD (PERMIT HO	OF THE ABOVE D	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIE ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RE VDAYS AFTER COMPLETION OF WELL DRILLING: Jason Maley A / PRINT SIGNEE NAME	F, THE FOREGOING CORD WITH THE ST	IS A TRUE AND ATE ENGINEER
			-V	\vee		
	R OSE INTER	NAL USE			RECORD & LOG (Ve	ersion 09/22/2022)
	E NO. CATION			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PAGE 2 OF 2
LU	CATION			WELL TAG ID NO.		TAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

Well	Engineer Well Number: Cowner: Devon Energy Res	sources				Phone	No.:	
Maili	ng address: 205 E Bender	Road #150				2 25 27 3		
City:	Hobbs		State:			NM		Zip code: 88240
II. W	VELL PLUGGING INFO							
1)	Name of well drilling c	ompany that plug	ged well: \underline{V}	ision Res	ources			
2)	New Mexico Well Dril						Expira	tion Date: 10-7-25
3)	Well plugging activities Jason Maley	s were supervised	by the follo	wing wel	l driller	(s)/rig su	pervisor(s);
4)	Date well plugging beg	an: 2-10-24		_ Date	well plu	ugging co	oncluded:	2-10-24
5)	GPS Well Location:	Latitude: Longitude:		_deg, _deg,	16 43	min, min,		sec sec, WGS 84
6)	Depth of well confirme by the following manne		olugging as:	55'	ft be	elow grou	and level (1	ogl),
7)	Static water level measure	ured at initiation of	of plugging:	0	ft bg	gl		
8)	Date well plugging plan	n of operations wa	as approved	by the Sta	ate Engi	ineer: _	12-6-23	
9)	Were all plugging activ differences between the							_ If not, please descri lditional pages as needed)

Version: September 8, 2009 Page 1 of 2 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	0 	77.50	77.50	Tremie pipe Open Hole	
	55'				
-					
-		MULTIPLY cubic feet x 7 cubic yards x 20	BY AND OBTAIN 7.4805 = gallons 1.97 = gallons		

III. SIGNATURE:

I, Jason Maley , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Version: September 8, 2009

Page 2 of 2

PAGE 1 OF 2

WELL TAG ID NO.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO.		PODI	WELL TAG ID NO.		OSE FILE NO(S). (0 - c	4712		
-	WELL OWNE	R NAME(S)	. 7001			PHONE (OPTIO		7112		
I. GENERAL AND WELL LOCA		rvard	Petroleun	· Company		.110,12 (0.11				
	WELL OWNE	R MAILING A	ADDRESS			CITY	il.	STATE	ZIP	
	40	Box '	936			Rosu	sell	NW 8	8202	
	WELL LOCATION (FROM GP:	LONG	TUDE STUDE		./ N 3.4 W	* DATUM REC	REQUIRED: ONE TENT			
	DESCRIPTIO	N RELATING	WELL LOCATION TO	STREET ADDRESS AND COMMON LANDN	IARKS – PLSS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE		
	LICENSE NO.		NAME OF LICENSED	Maley			NAME OF WELL DRI	Resource		
N	DRILLING ST	2DZ3	3 9 23	DEPTH OF COMPLETED WELL (FT)	Charles the Park of	SORE HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT				
-	COMPLETED	1	ARTESIAN *add Centralizer info bel	DRY HOLE SHALLOW (UNC	ALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL (FT)			DATE STATIO	MEASURE	
				MUD ADDITIVES - SPE			CHECK	HERE IF PITLESS ADA	APTER IS	
	DEPTH ((feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CONN	SING ECTION YPE ing diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches	
2. DAILERING & CASING IN ORDER	45	45	6	2" pre sch40 2" pre sch40		read ead	2" Z"	5ch40	.02	
							OSE OUT APR	4 2023 MI :22		
	DEPTH (Contract to	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AN RANGE BY INTER	RVAL		AMOUNT (cubic feet)	METHO PLACE		
- I	FROM	то		*(if using Centralizers for Artesian wells	indicate the	spacing below)	(custo teet)	1		
S. AMACLAN MALENAN				Mone Puller	d P	that f	Plugge	d		
2.5										

on 23.32.31.141

LOCATION

	DEPTH (feet bgl)			COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED	
4. HYDROGEOLOGIC LOG OF WELL	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)	
	0	20	20	White Caliche	Y N		
	20	45	25	Brow fine Sand	Y N		
	45	55	10	Red Sondy Calkhe	Y N		
					Y N		
					Y N		
					Y N		
					Y N		
			7		Y N		
					Y N		
					Y N		
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					Y N		
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					Y N		
					Y N		
					Y N		
				OTAL ESTIMATED WELL YIELD (gpm):	Dry		
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.						
	MISCELLANEOUS INFORMATION: OSE DY APR 4 2023 ML:23						
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
8		THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: 3/24/23					
6. SIGNATURE 5	CORRECT I	RECORD OF ERMIT HO	OLDER WITHIN 3	Days after completion of well drilling:	3/24/23		
	CORRECT I	RECORD OF ERMIT HO		Days after completion of well drilling:	3/24/23 DATE		
6. SIGNATURE	CORRECT I	SIGNAT	OLDER WITHIN 3	DAYS AFTER COMPLETION OF WELL DRILLING: JOSON Maley R / PRINT SIGNEE NAME	3/24/23		

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 743189 File Nbr: C 04712

Well File Nbr: C 04712 POD1

Apr. 04, 2023

VERTEX RESOURCES P.O. BOX 936 ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

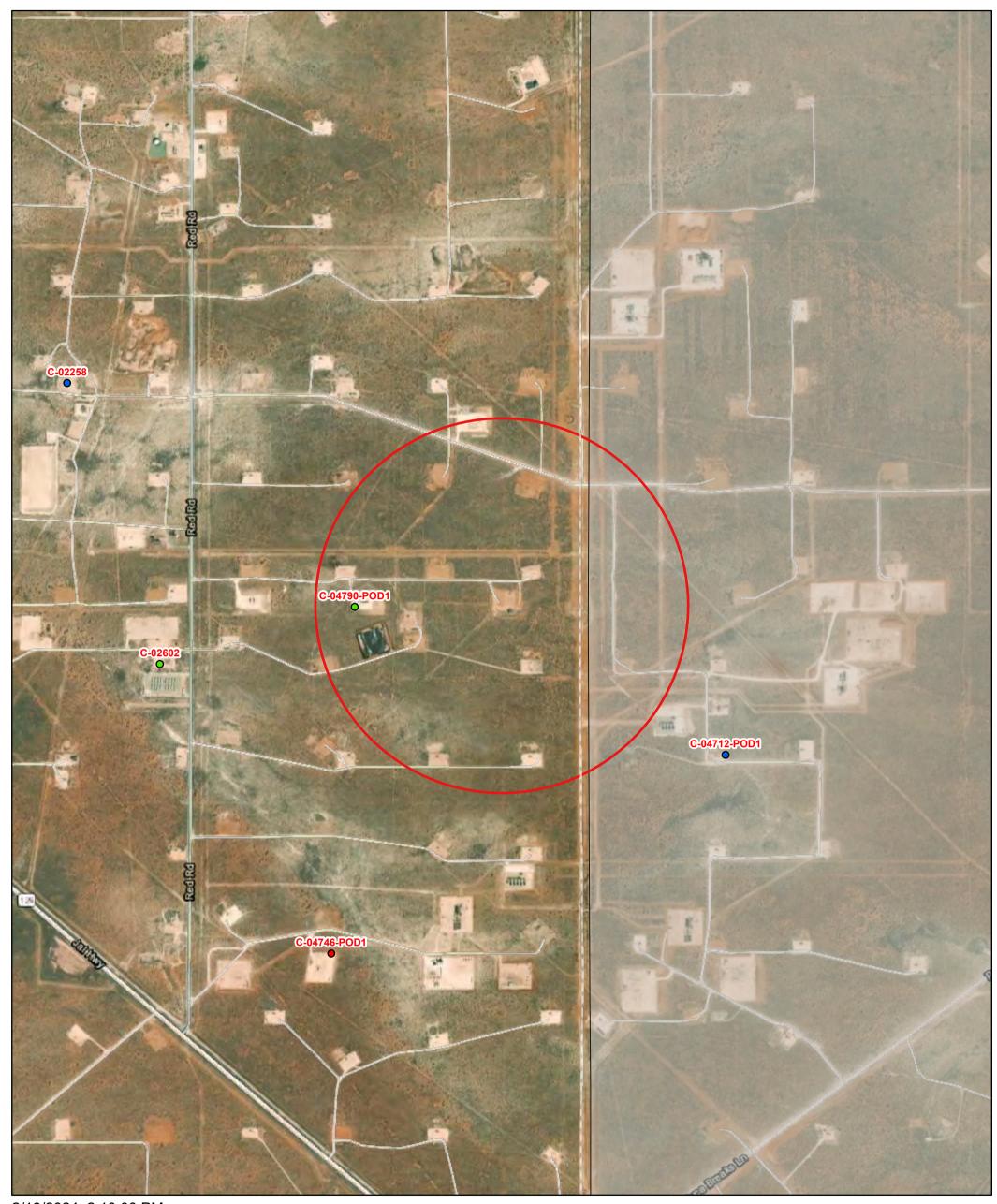
If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521

drywell

OSE POD Location Map



2/19/2024, 2:10:00 PM

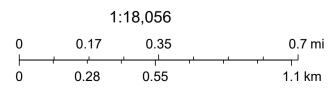
Override 1 OSE District Boundary GIS WATERS PODs Water Right Regulations

0 Active Closure Area

Pending

Artesian Planning Area

Plugged



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



Aldabra 25 Fed #006H - Watercourse - 24,506ft



December 7, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

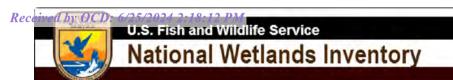
Freshwater Pond

Lake

Other

Riverine

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





December 7, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

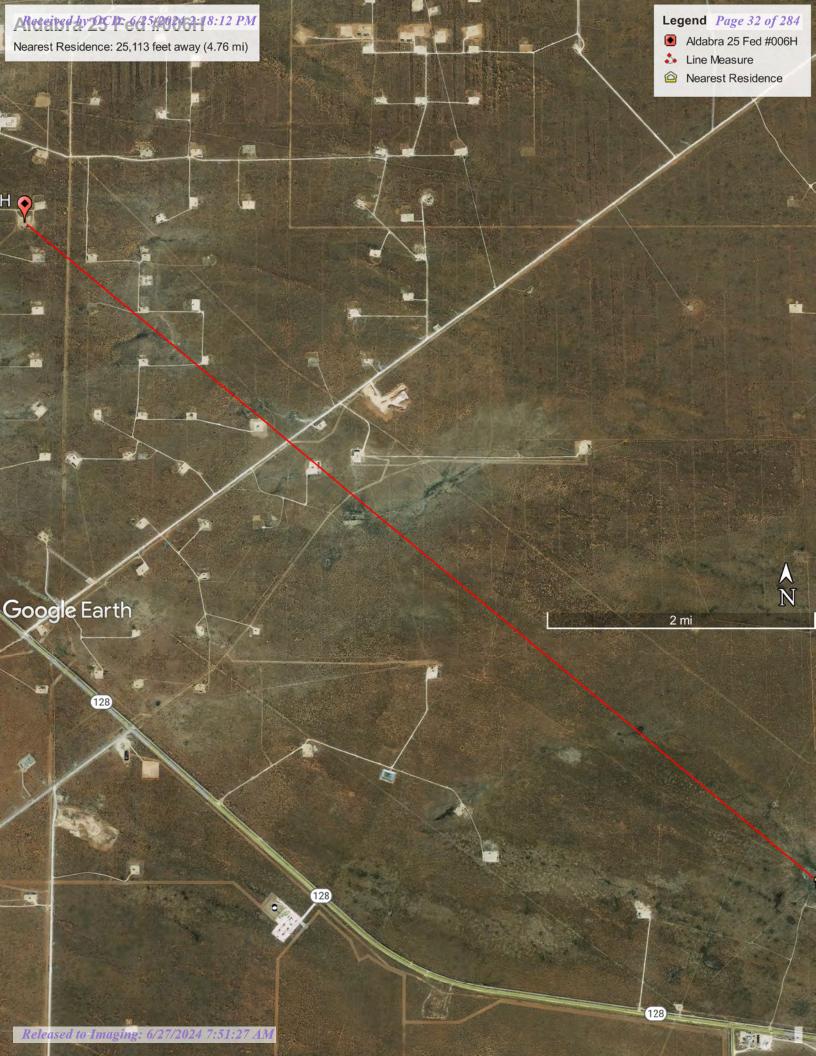
Freshwater Pond

Lake

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.







Aldabra 25 Fed #006H Wetland 10,950 ft



February 2, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

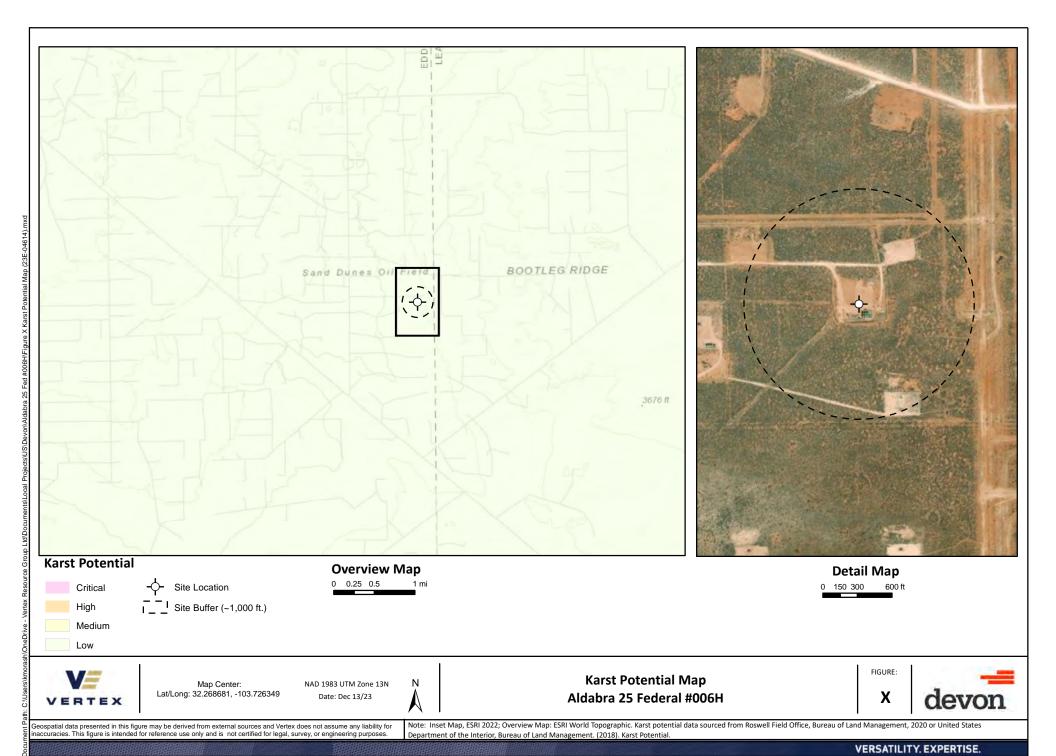
Riverine

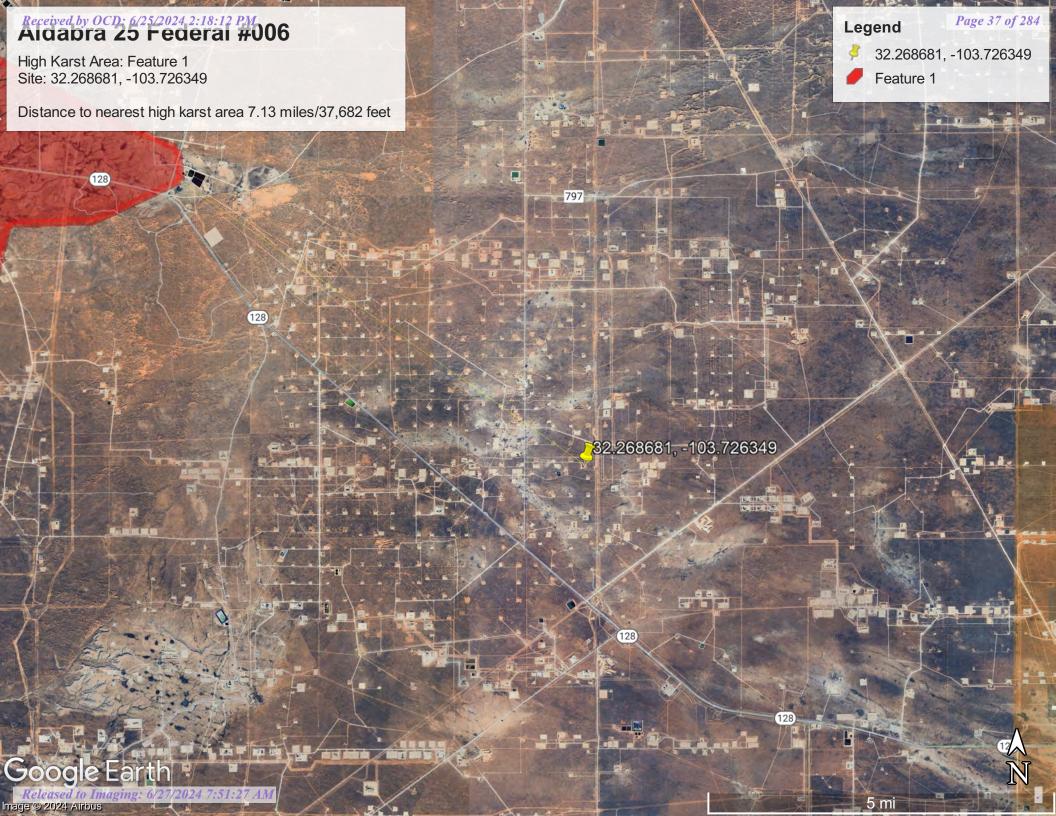
Other

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.

Aldabra 25 Fed #006H Nearest Subsurface Mine10.8 Mi (56,847 ft)





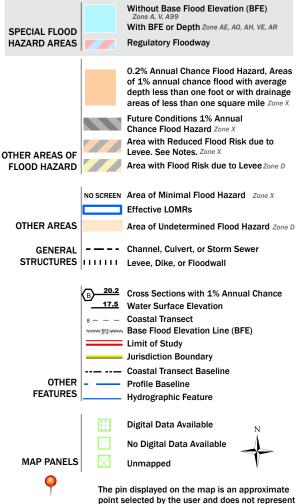


National Flood Hazard Layer FIRMette





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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/30/2024 at 10:53 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

an authoritative property location.

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







NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Eddy Area, New Mexico, and Lea County, New Mexico



Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

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

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

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

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How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

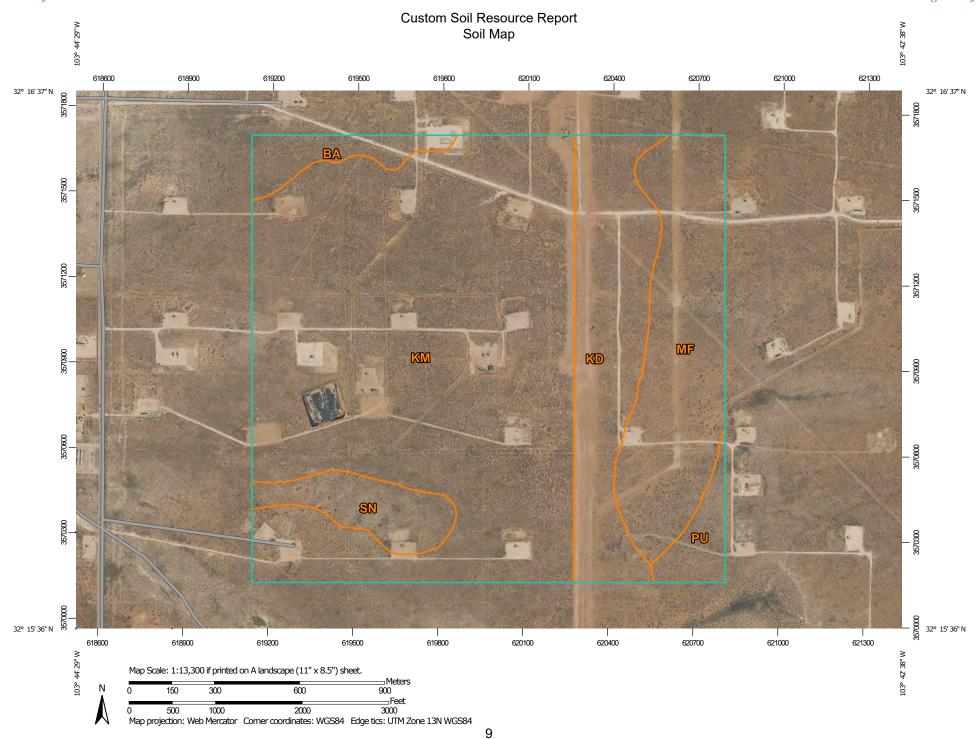
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree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

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

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

Soil Map

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



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

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Blowout

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Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot Severely Eroded Spot

Sinkhole Slide or Slip

Sodic Spot

Spoil Area Stony Spot

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Very Stony Spot

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Wet Spot Other

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Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

0

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

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

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

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ВА	Berino loamy fine sand, 0 to 3 percent slopes	19.2	3.0%
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	395.3	60.8%
SN	Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded	28.7	4.4%
Subtotals for Soil Survey Area		443.2	68.2%
Totals for Area of Interest		649.9	100.0%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KD Kermit-Palomas fine sands, 0 to 12 percent slopes		89.8	13.8%
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	101.6	15.6%
PU	Pyote and Maljamar fine sands	15.3	2.4%
Subtotals for Soil Survey Area		206.7	31.8%
Totals for Area of Interest		649.9	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

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand H2 - 12 to 58 inches: sandy clay loam H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 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): 3e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent

Hydric soil rating: No

SN—Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w5y Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 45 percent Wink and similar soils: 40 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: fine sandy loam H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 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: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Description of Wink

Setting

Landform: Swales, depressions

Landform position (three-dimensional): Talf

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 8 inches: fine sandy loam H2 - 8 to 38 inches: fine sandy loam

H3 - 38 to 60 inches: stratified gravelly variable

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: 30 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: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components

Dune land

Percent of map unit: 15 percent

Hydric soil rating: No

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent Palomas and similar soils: 20 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand

Bt - 16 to 60 inches: sandy clay loam

Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 1 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Dune land

Percent of map unit: 1 percent

Hydric soil rating: No

MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Maljamar and similar soils: 46 percent Palomas and similar soils: 44 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 7e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Palomas

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand

Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 45 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Wink

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

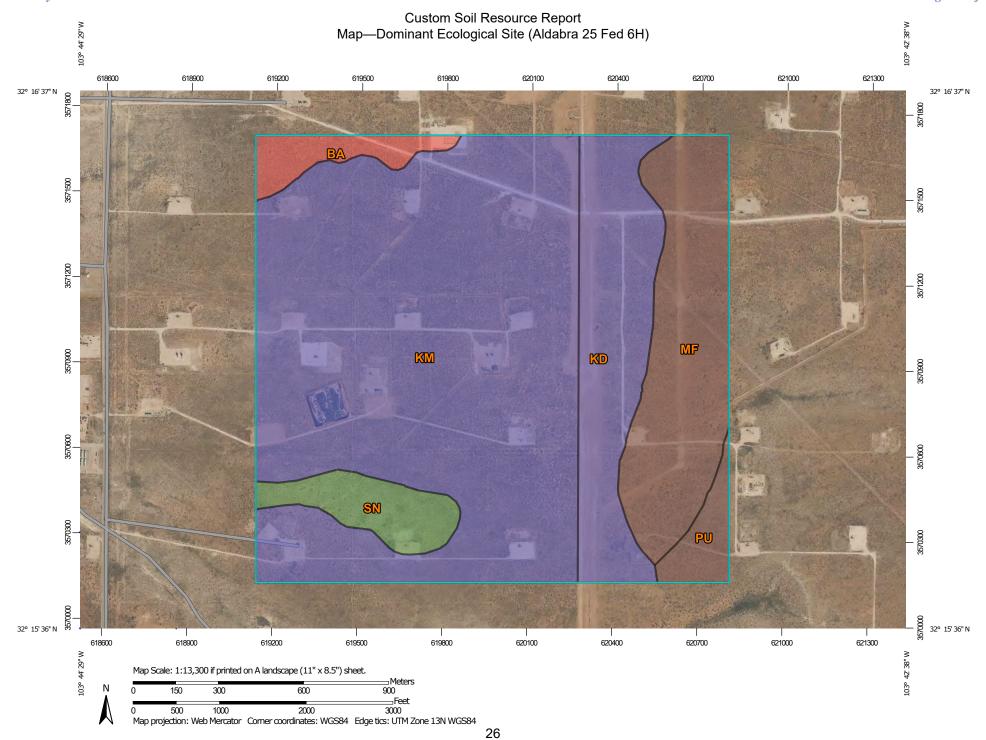
Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

All Ecological Sites — (Aldabra 25 Fed 6H)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.



MAP LEGEND

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Background

US Routes

Major Roads

Local Roads

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

R070BC007NM

R070BD002NM

R070BD003NM

R070BD005NM

Not rated or not available

Soil Rating Lines

R070BC007NM

R070BD002NM

R070BD003NM

R070BD005NM

Not rated or not available

Soil Rating Points

■ R070BC007NM

R070BD002NM

■ R070BD003NM

R070BD005NM

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023

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

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

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Ecological Sites by Map Unit Component (Aldabra 25 Fed 6H)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI	
BA Berino loamy fine sand, 0 to 3 percent slopes	sand, 0 to 3	Berino (99%)	R070BC007NM — Loamy	19.2	19.2	3.0%
	Pajarito (1%)	R070BD003NM — Loamy Sand				
KM Kermit-Berino fine sands, 0 to 3 percent slopes	Kermit (50%)	R070BD005NM — Deep Sand	395.3	60.8%		
	percent slopes	Berino (35%)	R070BD003NM — Loamy Sand			
		Active dune land (15%)				
Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded	Simona (45%)	R070BD002NM — Shallow Sandy	28.7	4.4%		
	Wink (40%)	R070BD004NM — Sandy				
		Dune land (15%)				
Subtotals for Soil S	urvey Area			443.2	68.2%	
Totals for Area of In	iterest			649.9	100.0%	

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
KD	Kermit-Palomas fine sands, 0 to 12	Kermit (70%)	R070BD005NM — Deep Sand	89.8	M — 89.8 13.8%
	percent slopes	Palomas (20%) R070BD003NM — Loamy Sand			
		Maljamar (4%)	R070BD003NM — Loamy Sand		
		Pyote (4%)	R070BD003NM — Loamy Sand		
		Dune land (1%)			
	Palomas (1%)	R070BD003NM — Loamy Sand			
MF	Maljamar and Palomas fine	Maljamar (46%)	R070BD003NM — Loamy Sand	101.6	15.6%
sands, 0 to 3 percent slopes	1	Palomas (44%)	R070BD003NM — Loamy Sand		
		Kermit (5%)	R070BC022NM — Sandhills		
		Wink (5%)	R070BD003NM — Loamy Sand		
PU	Pyote and Maljamar fine sands	Pyote (46%)	R070BD003NM — Loamy Sand	15.3	2.4%

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
		Maljamar (44%)	R070BD003NM — Loamy Sand		
		Kermit (10%)	R070BC022NM — Sandhills		
Subtotals for Soil Survey Area			206.7	31.8%	
Totals for Area of Interest		649.9	100.0%		

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Ecological site R070BD005NM Deep Sand

Accessed: 02/23/2024

General information

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

Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune(2) Parna dune(3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	0–15%
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 is in late March or early April, and the first killing frost is in late October or early November.

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west 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 deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand, Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam. Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony

Aguena

Kermit

Likes

Pintura

Bluepoint

Table 4. Representative soil features

•	
Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained
Permeability class	Moderate to very rapid
Soil depth	60–72 in
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–5 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–7.8

Subsurface fragment volume <=3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

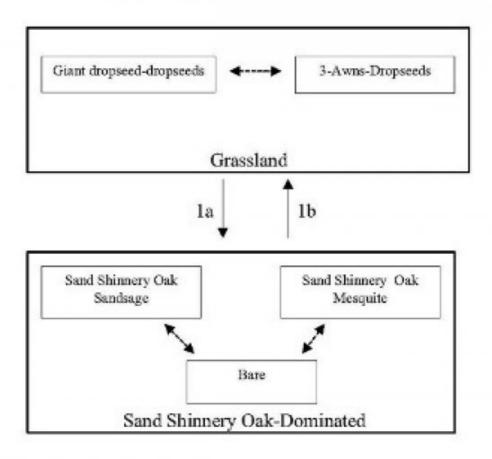
Overview

The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent (approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (Aristida spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia fillifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Deep Sand



1.a Climate, fire suppression, competition, over grazing

1.b Brush control, Prescribed grazing

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Plant Community Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948). Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland. Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed. Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 5. Plant community growth curve (percent production by month). NM2805, HCPC. SD-3 Deep 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 Shinnery Oak Dominated

Community 2.1 Shinnery Oak Dominated



Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover. Diagnosis: Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches. Transition to Shinnery oak dominated state (1a): The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, 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 an increase of shrub species abundance and bare patch expansion. Key indicators of approach to transition: • Loss of grass and forb cover • Surface soil erosion • Bare patch expansion • Increased shrub species abundance and composition Transition to Historic Plant Community (1b): The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

					Annual Production	Foliar Cover
- 0	Group	Common Name	Symbol	Scientific Name	(Lb/Acre)	(%)

1	Warm Season			450–585	
<u> </u>	spike dropseed	SPCO4	Sporobolus contractus	450–585	
		SPC04 SPCR	·	450–585	
	sand dropseed		Sporobolus cryptandrus		
	mesa dropseed	SPFL2	Sporobolus flexuosus	450–585	
	giant dropseed	SPGI	Sporobolus giganteus	450–585	
2	Warm Season	1	1	65–104	
	sand bluestem	ANHA	Andropogon hallii	65–104	
	little bluestem	SCSC	Schizachyrium scoparium	65–104	
3	Warm Season			39–91	
	threeawn	ARIST	Aristida	39–91	
4	Warm Season			13–39	
	thin paspalum	PASE5	Paspalum setaceum	13–39	
5	Warm Season			13–39	
	black grama	BOER4	Bouteloua eriopoda	13–39	
6	Warm Season	.		13–39	
	mat sandbur	CELO3	Cenchrus longispinus	13–39	
7	Warm Season	•		13–39	
	Havard's panicgrass	PAHA2	Panicum havardii	13–39	
3	Warm Season			13–65	
	plains bristlegrass	SEVU2	Setaria vulpiseta	13–65	
9	Other Annual Grasses		· · · · · · · · · · · · · · · · · · ·	13–65	
	Grass, annual	2GA	Grass, annual	13–65	
Shru	lb/Vine		,		
10	Shrub			65–130	
	Havard oak	QUHA3	Quercus havardii	65–130	
11	Shrub		Quo ou o manam	13–39	
	sand sagebrush	ARFI2	Artemisia filifolia	13–39	
12	Shrub	AINIZ	Arternisia lillolla	65–130	
12	+	YUCCA	Yucca	65–130	
13	yucca Shrub	TOCCA	Tucca	13–39	
13	rabbitbrush	CHRYS9	Chrysothamnus	13–39	
4.4		CHR139	Chrysothamhus		
14	Other Shrubs	00110110		13–39	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	13–39	
Forb				1	
15	Forb		1	39–91	
	croton	CROTO	Croton	39–91	
	Indian blanket	GAPU	Gaillardia pulchella	39–91	
16	Forb			39–91	
	aster	ASTER	Aster	39–91	
	whitest evening primrose	OEAL	Oenothera albicaulis	39–91	
	beardtongue	PENST	Penstemon	39–91	

	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	13–65	_
18	Other Forbs			13–65	
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	39–91	_
	spiny false fiddleleaf	HYSP	Hydrolea spinosa	39–91	_
	sunflower	HELIA3	Helianthus	39–91	_
	buckwheat	ERIOG	Eriogonum	39–91	_

Animal community

This site provides habitat which supports a resident animal population characterized by pronghorn, antelope, black-tailed jackrabbit, spotted ground squirrel, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, meadowlark, roadrunner, white-necked raven, cactus wren, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake and ornate box turtle. In the area called Mescalero Sands, there are white-tailed and mule deer.

Hydrological functions

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Anthony B

Bluepoint A

Kermit A

Aguena A

Likes A

Pintura A

Recreational uses

This site offers limited recreation potential for hiking, horseback riding, nature observation and photography; game bird, predator, antelope, and deer hunting.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock during all seasons of the year. Shinnery oak is toxic in the late bud or early leaf stage. Shinnery oak will increase, as will sand sagebrush following drought. Changes in the fire return interval have also favored an increase in shrub cover. The dropseeds and bluestem will decrease. This site responds very well to brush manangement and deferment. This site is well suited to a grazing system that rotates the season of use. Nesting habitat for lesser prairie chicken can be improved by providing residual cover that is at least 14 inches high.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 2.0 - 3.8 75 - 51 3.0 - 6.0 50 – 26 5.0 – 10.0 25 – 0 10.1 +

Inventory data references

Other References:

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

Other references

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Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

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

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

Indicators

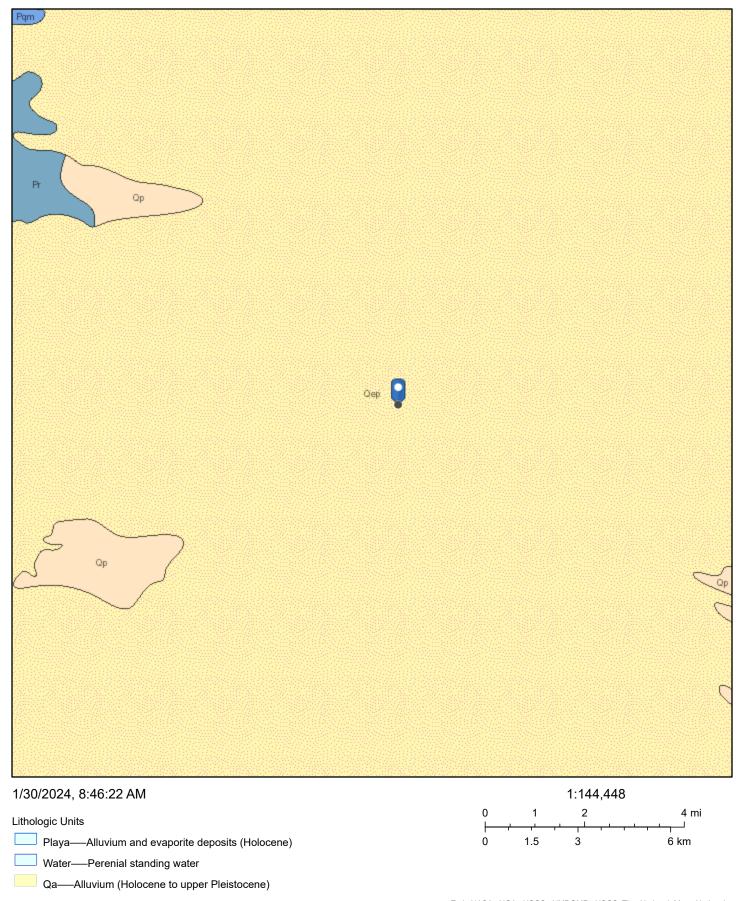
1. Number and extent of rills:

2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:

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

eceiv	ved by OCD: 6/25/2024 2:18:12 PM	Page 82 of
	decadence):	
14.	Average percent litter cover (%) and depth (in):	
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage a production):	annual-
16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH chardegraded states and have the potential to become a dominant or co-dominant species on the ecological their future establishment and growth is not actively controlled by management interventions. Species become dominant for only one to several years (e.g., short-term response to drought or wildfire) are reinvasive plants. Note that unlike other indicators, we are describing what is NOT expected in the refer for the ecological site:	cal site if es that not
17.	Perennial plant reproductive capability:	

Aldabra 25 Fed #006H Geology



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

APPENDIX B – Daily Field and Sampling Reports



Client: Devon Energy Corporation

Site Location Name: Aldabra 25 Federal #006H Report Run Date: 8/25/2023 10:31 PM

Client Contact Name: Jim Raley API #: 30-015-38602

Client Contact Phone #: 575-748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary of Times					
Arrived at Site	8/25/2023 10:02 AM				
Departed Site	8/25/2023 4:30 PM				

Field Notes

14:31 Arrived on site filled out JSA. Had Deusavan sign JSA.

14:34 A site assessment was conducted to better understand the scope of historical spill and how to approach the site delineation.

14:35 At 10:30 we began marking areas where Boreholes 1 through 5 will be placed to start off the delineation.

14:38 Samples for BH23-01 were collected at 0', 2', 4', and 6' depths

Samples for BH23-02, BH23-03, BH23-04, and BH23-05 were collected at 0' and 2' depths,

All samples are field screened for Chlorides and TPH.

16:18 All samples except BH23-05 at 0', and 2' are clean on Chlorides and TPH.

BH23-05 is hot on Chlorides at both depths

- **16:19** All sample's except BH23-05 at 0', and 2' are jarred and sent to lab.
- **16:20** All work was completed on site at 4:30 for the day.



Next Steps & Recommendations

- **1** Step out BH23-05
- 2 Continue site delineation



Site Photos

Viewing Direction: South



BH23-01 at 0', 2', 4', and 6' depths

Facing South

Viewing Direction: North



BH23-02 at 0', and 2' depths

Facing North

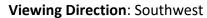






BH23-03 at 0', and 2' depths

Facing Southeast





BH23-05 at 0', and 2' depths

Facing Southwest



BH23-04 at 0', and 2' depths

Facing South





Point of release according to 2015 C-141





Overview of site

Facing Southeast



Overview of site

Facing Southwest





Overview of where points were placed for Boreholes



Daily Site Visit Signature

Inspector: Jacob Reta

Signature:



Client: Devon Energy Corporation Inspection Date: 12/5/2023

Site Location Name: Aldabra 25 Federal #006H Report Run Date: 12/5/2023 11:15 PM

Client Contact Name: Jim Raley API #: 30-015-38602

Client Contact Phone #: 575-748-0176

Unique Project ID Project Owner:

Project Reference # Project Manager:

Summary	of Times
---------	----------

Arrived at Site 12/5/2023 7:00 AM

Departed Site 12/5/2023 3:00 PM

Field Notes

- 14:17 Completed safety paperwork and initial line locate upon arrival to site
- 14:17 On site to continue characterization sampling.
- 14:18 Obtained:

BH23-06, 09, 11, 12, 13, 14, 15 and 16.

All samples obtained at 0 and 2' depths.

Obtained 4 and 5' depth samples at BH23-11 due to high TPH concentrations.

14:20 BH23-11 still high in TPH concentrations at 5' depth. Below pad, soil is predominately sand. At surface there is a large dark stain what looks to be solidified oil material. This may be leaching at a high rate through the sand.

Next Steps & Recommendations

1 Need to obtain clean sample at BH23-11 as contamination seems to be percolating through sand at high rate.



Site Photos



BH23-06 north of flare / combuster



BH23-11 north of 09



BH23-09



BH23-12 directly east of separators





BH23-16 directly south of VRUs



BH23-13 east of 16



BH23-14 south of 13



BH23-15 east of 13



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

Arrived at Site

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	4/10/2024			
Site Location Name:	Aldabra 25 Federal #006H	Report Run Date:	4/10/2024 9:37 PM			
Client Contact Name:	Dale Woodall	API #:	30-015-38602			
Client Contact Phone #:	405-318-4697					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						

Field Notes

- **8:29** Arrived on site, examined site for hazards and completed safety assessment for job and documents. Discussed plan for day with SDR excavation crew.
- 8:40 Excavation to 10 feet proceeded. Collecting samples to delineate around BH23-05 to north and east.
- 9:12 Collected samples in excavation.
 - Four dump trucks arrived to haul off soils and bring clean soil in.

4/10/2024 7:35 AM

4/10/2024 3:45 PM

- Collect soil sample from hauled in backfill for field screening and lab analysis.
- **10:17** Excavator collected soil sample from base of 10 ft excavation and brought to surface for sampling. Collected 5 point composite sample from base excavation scrape.
- **14:59** Collected samples from east wall at 2 and 6 foot area and base at 6 foot area. Collected samples at BH23-05 at 4, 6, and 8 ft, BH24-17 at 0 and 2 ft and BH24- 18 at 0 and 2 ft. Field screened all samples for TPH with Dexsil petroflag and chlorides with EC meter and with titration for quality control.
- 15:30 Prepared East delineation samples for lab and preserved on ice. Excavation area was fenced off for safety.
- 15:35 Measured dimensions of excavation with measuring tape.



Next Steps & Recommendations

1 Confirmation sampling

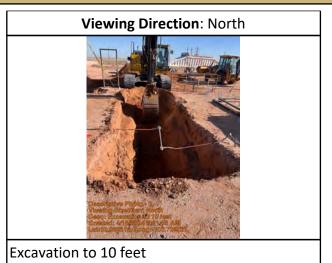


Site Photos



BH24-17 at 0 and 2 ft, north of BH23-05.



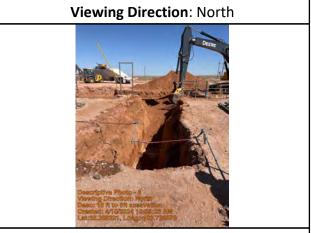








Backfill composite sample



Viewing Direction: South

10 ft to 6ft excavation





Run on 4/10/2024 9:37 PM UTC Powered by www.krinkleldar.com Page 4 of 7





Composite sample of east wall and base around 6-10 ft area



BH23-05 3 ft



Final excavation from 2 ft to 6 to to 10 ft with fencing.



Final excavation from 2 ft to 6 to to 10 ft with fencing.





Depth of excavation



Measuring excavation



BH23-05 at 8 ft



BH24-18 at 0 and 2 feet, backfilled



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	4/19/2024			
Site Location Name:	Aldabra 25 Federal #006H	Report Run Date:	4/19/2024 10:04 PM			
Client Contact Name:	Dale Woodall	API#:	30-015-38602			
Client Contact Phone #:	405-318-4697					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	4/19/2024 8:30 AM					

Field Notes

- **8:51** Arrived on site, examined site for hazards and completed safety assessment for job and documents. Assessed area for final sample locations plotted on field maps.
- **14:07** Collected wall samples WS24-01 through WS24-07 depths of 0 to 2 to 6 to 10 feet, respectively, and base samples BS24-01 through BS24-08 at depths of 2 to 6 to 10 feet, respectively. 10:30 AM
 - Field screened all samples for TPH with Dexsil petroflag and chlorides with EC meter.

4/19/2024 2:45 PM

- 14:37 All samples were collected as 5-point composite samples. Due to excavation depth, extra caution was practiced for safety. Wall samples collected along 10 feet wall were carefully collected along both top and bottom portions of the wall (0-10 ft bgs), the same as the other wall samples. The 6 feet wall was collected were the 2ft and 6 ft areas meet along the 4 feet tall wall of the 6 ft bgs excavation. The 2 ft area was collected along the 2 ft wall (0-2 ft).
- **14:37** Documented field screenings and excavation. All samples screened below applicable criteria. Prepared samples for lab in jars and preserved on ice.

Next Steps & Recommendations

1 Submit final samples to lab

Run on 4/19/2024 10:04 PM UTC

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Site Photos





Samples WS24-04 through WS24-07 0-10ft (5-point composite samples)

Viewing Direction: East



BS24-06 at 6 ft and WS24-03 at 0-6ft (5-point composite samples)

Viewing Direction: South



BS24-02 and BS24-07 at 10 ft (5-point composite samples)

Viewing Direction: Northeast



WS24-02 at 0-2 ft (5-point composite sample)





BS24-01 at 2 ft (5-point composite sample)



WS24-01 at 0-2 ft (5-point composite sample)



BS24-03 through BS24-05 at 2 ft (5-point composite sample)

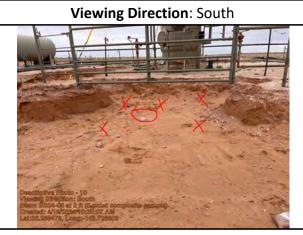


BS24-03 at 2 ft (5-point composite sample)





BS24-04 at 2 ft (5-point composite sample)



BS24-05 at 2 ft (5-point composite sample)



BS24-08 at 2 ft (5-point composite sample)



Site information placard





Excavation from NE most delineated edge



Excavation from NW most delineated edge



Excavation from SW most delineated edge



Excavation from SE most delineated edge





Excavation, entire



Excavation, entire



Run on 4/19/2024 10:04 PM UTC Powered by www.krinkleldar.com

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:

APPENDIX C – Notifications

SIGN-IN HELP

Searches

Operator Data

Hearing Fee Application

OCD Permitting

Operator Data

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:

334178

Districts:

Artesia

Operator:

[6137] DEVON ENERGY PRODUCTION COMPANY, LP

Counties:

Eddy

Description:

DEVON ENERGY PRODUCTION COMPANY, LP [6137] , ALDABRA 25 FEDERAL #006H

, nAB1616056900

Status:

APPROVED

Status Date:

04/16/2024

References (2):

30-015-38602, nAB1616056900

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)

nAB1616056900

Incident Name

NAB1616056900 ALDABRA 25 FEDERAL #006H @ 30-015-38602

Incident Type

Oil Release

Incident Status

Initial C-141 Approved

Incident Well

[30-015-38602] ALDABRA 25 FEDERAL #006H

Location of Release Source

Site Name

ALDABRA 25 FEDERAL #006H

Date Release Discovered Surface Owner

06/06/2016 Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet

1,358 15

What is the estimated number of samples that will be gathered

04/19/2024

19.15.29.12 NMAC

Time sampling will commence

09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of

Kent Stallings P.G. Senior Geologist Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220 P 5 706 C 346.814.1413

SIGN-IN HELP

			Searches	Operator Data	Hearing Fee Application
Acknowledgments					
This submission type doe	s not have acknowledgments, at this time.				
Comments					
No comments found for th	iis submission.				
Conditions					
Summary:	wdale (4/16/2024), Failure to notify the OCD of sampling remediation closure samples not being accepted.	events including any changes in dat	e/time per the requ	irements of 19.15.29.12.C	.(1).(a) NMAC, may result in the
Reasons					
No reasons found for this	submission.				
Go Back					

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EMNRD Home OCD Main Page OCD Rules Help

APPENDIX D – Laboratory Data Reports and Chain of Custody Forms



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 12, 2023

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL:
FAX:

RE: Aldabra 2S Fed 006H OrderNo.: 2308F29

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 8/29/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-01 0'

Project: Aldabra 2S Fed 006H **Collection Date:** 8/25/2023 1:05:00 PM 2308F29-001 Lab ID: Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/5/2023 5:46:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/5/2023 5:46:56 PM
Surr: DNOP	76.5	69-147	%Rec	1	9/5/2023 5:46:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/4/2023 10:53:19 PM
Surr: BFB	94.5	15-244	%Rec	1	9/4/2023 10:53:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/4/2023 10:53:19 PM
Toluene	ND	0.047	mg/Kg	1	9/4/2023 10:53:19 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/4/2023 10:53:19 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/4/2023 10:53:19 PM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	9/4/2023 10:53:19 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	300	60	mg/Kg	20	9/5/2023 1:16:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Reporting Limit

Page 1 of 14

Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-01 2'

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 1:10:00 PM

 Lab ID:
 2308F29-002
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/5/2023 5:58:06 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/5/2023 5:58:06 PM
Surr: DNOP	78.7	69-147	%Rec	1	9/5/2023 5:58:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/5/2023 12:03:43 AM
Surr: BFB	95.8	15-244	%Rec	1	9/5/2023 12:03:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/5/2023 12:03:43 AM
Toluene	ND	0.047	mg/Kg	1	9/5/2023 12:03:43 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/5/2023 12:03:43 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/5/2023 12:03:43 AM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/5/2023 12:03:43 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/5/2023 1:28:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-01 4'

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 2:05:00 PM

 Lab ID:
 2308F29-003
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/5/2023 6:09:17 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/5/2023 6:09:17 PM
Surr: DNOP	74.3	69-147	%Rec	1	9/5/2023 6:09:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/5/2023 1:13:45 AM
Surr: BFB	96.0	15-244	%Rec	1	9/5/2023 1:13:45 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	9/5/2023 1:13:45 AM
Toluene	ND	0.049	mg/Kg	1	9/5/2023 1:13:45 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/5/2023 1:13:45 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/5/2023 1:13:45 AM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/5/2023 1:13:45 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/5/2023 1:40:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-01 6'

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 2:10:00 PM

 Lab ID:
 2308F29-004
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/5/2023 6:20:24 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/5/2023 6:20:24 PM
Surr: DNOP	86.6	69-147	%Rec	1	9/5/2023 6:20:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/5/2023 1:37:05 AM
Surr: BFB	96.9	15-244	%Rec	1	9/5/2023 1:37:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	9/5/2023 1:37:05 AM
Toluene	ND	0.047	mg/Kg	1	9/5/2023 1:37:05 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/5/2023 1:37:05 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/5/2023 1:37:05 AM
Surr: 4-Bromofluorobenzene	108	39.1-146	%Rec	1	9/5/2023 1:37:05 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/5/2023 2:18:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Not In Range Page 4 of 14

Ethylbenzene

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2308F29

Date Reported: 9/12/2023

9/5/2023 2:54:16 PM

9/5/2023 2:54:16 PM

9/5/2023 2:54:16 PM

9/5/2023 2:55:25 PM

Analyst: SNS

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-02 0^o

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 1:20:00 PM

 Lab ID:
 2308F29-005
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 9/5/2023 6:31:31 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/5/2023 6:31:31 PM Surr: DNOP 72.3 69-147 %Rec 1 9/5/2023 6:31:31 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/5/2023 2:54:16 PM 4.8 mg/Kg 1 Surr: BFB 96.1 15-244 %Rec 1 9/5/2023 2:54:16 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 9/5/2023 2:54:16 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/5/2023 2:54:16 PM

ND

ND

106

ND

0.048

0.096

60

39.1-146

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-02 2'

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 1:25:00 PM

 Lab ID:
 2308F29-006
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/5/2023 6:42:34 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/5/2023 6:42:34 PM
Surr: DNOP	81.4	69-147	%Rec	1	9/5/2023 6:42:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/5/2023 3:17:48 PM
Surr: BFB	98.2	15-244	%Rec	1	9/5/2023 3:17:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/5/2023 3:17:48 PM
Toluene	ND	0.048	mg/Kg	1	9/5/2023 3:17:48 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/5/2023 3:17:48 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/5/2023 3:17:48 PM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/5/2023 3:17:48 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/5/2023 3:32:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-03 0^o

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 1:30:00 PM

 Lab ID:
 2308F29-007
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 920 94 mg/Kg 10 9/6/2023 3:20:23 PM Motor Oil Range Organics (MRO) 820 470 mg/Kg 10 9/6/2023 3:20:23 PM Surr: DNOP 0 69-147 S %Rec 10 9/6/2023 3:20:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 9/5/2023 3:41:21 PM mg/Kg 1 Surr: BFB 94.6 15-244 %Rec 1 9/5/2023 3:41:21 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 9/5/2023 3:41:21 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/5/2023 3:41:21 PM Ethylbenzene ND 0.047 mg/Kg 1 9/5/2023 3:41:21 PM Xylenes, Total ND 0.094 mg/Kg 1 9/5/2023 3:41:21 PM Surr: 4-Bromofluorobenzene 104 39.1-146 %Rec 1 9/5/2023 3:41:21 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 9/5/2023 3:45:04 PM ND 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 2'

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 1:35:00 PM

 Lab ID:
 2308F29-008
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/6/2023 3:09:28 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/6/2023 3:09:28 PM
Surr: DNOP	102	69-147	%Rec	1	9/6/2023 3:09:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/5/2023 4:04:55 PM
Surr: BFB	94.6	15-244	%Rec	1	9/5/2023 4:04:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/5/2023 4:04:55 PM
Toluene	ND	0.048	mg/Kg	1	9/5/2023 4:04:55 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/5/2023 4:04:55 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/5/2023 4:04:55 PM
Surr: 4-Bromofluorobenzene	105	39.1-146	%Rec	1	9/5/2023 4:04:55 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/5/2023 3:57:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 14

Date Reported: 9/12/2023

9/5/2023 4:09:53 PM

20

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-04 0'

Project: Aldabra 2S Fed 006H Collection Date: 8/25/2023 1:22:00 PM Lab ID: 2308F29-009 Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 9/5/2023 7:15:40 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/5/2023 7:15:40 PM Surr: DNOP 81.9 69-147 %Rec 1 9/5/2023 7:15:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/5/2023 4:28:25 PM 4.6 mg/Kg 1 Surr: BFB 99.2 15-244 %Rec 1 9/5/2023 4:28:25 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 9/5/2023 4:28:25 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 9/5/2023 4:28:25 PM Ethylbenzene ND 0.046 mg/Kg 1 9/5/2023 4:28:25 PM Xylenes, Total ND 0.093 mg/Kg 1 9/5/2023 4:28:25 PM Surr: 4-Bromofluorobenzene 109 39.1-146 %Rec 1 9/5/2023 4:28:25 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg

ND

60

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Chloride

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 9 of 14

Date Reported: 9/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-04 2'

 Project:
 Aldabra 2S Fed 006H
 Collection Date: 8/25/2023 1:26:00 PM

 Lab ID:
 2308F29-010
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/5/2023 7:26:38 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/5/2023 7:26:38 PM
Surr: DNOP	78.0	69-147	%Rec	1	9/5/2023 7:26:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/5/2023 4:51:54 PM
Surr: BFB	97.1	15-244	%Rec	1	9/5/2023 4:51:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	9/5/2023 4:51:54 PM
Toluene	ND	0.049	mg/Kg	1	9/5/2023 4:51:54 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/5/2023 4:51:54 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/5/2023 4:51:54 PM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/5/2023 4:51:54 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	9/5/2023 4:22:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F29**

12-Sep-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 2S Fed 006H

Sample ID: MB-77283 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **77283** RunNo: **99451**

Prep Date: 9/5/2023 Analysis Date: 9/5/2023 SeqNo: 3631474 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-77283 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77283 RunNo: 99451

Prep Date: 9/5/2023 Analysis Date: 9/5/2023 SeqNo: 3631475 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.8 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2308F29

12-Sep-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 2S Fed 006H

Sample ID: LCS-77278	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	ID: 772	278	F	RunNo: 99	9448					
Prep Date: 9/5/2023	Analysis D	ate: 9/	5/2023	9	SeqNo: 30	630276	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	10	50.00	0	100	61.9	130				
Surr: DNOP	4.0		5.000		79.2	69	147				

Sample ID: MB-77278 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 77278 RunNo: 99448 Prep Date: 9/5/2023 Analysis Date: 9/5/2023 SeqNo: 3630278 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.2 10.00 81.8 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308F29 12-Sep-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 2S Fed 006H

Sample ID: Ics-77243 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 77243 RunNo: 99436

Prep Date: 8/31/2023 Analysis Date: 9/4/2023 SeqNo: 3629277 Units: mq/Kq

SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL SPK value LowLimit Qual Gasoline Range Organics (GRO) 21 5.0 25.00 n 85.9 70 130 Surr: BFB 2000 1000 195 244 15

Sample ID: mb-77243 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 77243 RunNo: 99436

Prep Date: Analysis Date: 9/4/2023 8/31/2023 SeqNo: 3629278 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 1000 95.9 15 244

Sample ID: 2308f29-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BH23-01 0' Batch ID: 77243 RunNo: 99436 Prep Date: 8/31/2023 Analysis Date: 9/4/2023 SeqNo: 3629300 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual

Gasoline Range Organics (GRO) 18 4.7 23.50 75.1 70 130 Surr: BFB 1700 939.8 183 15 244

Sample ID: 2308f29-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 77243 BH23-01 0' RunNo: 99436

Prep Date: 8/31/2023 Analysis Date: 9/4/2023 SeqNo: 3629301 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 18 23.45 78.6 70 130 4.34 20 4.7 Surr: BFB 1800 938.1 187 15 244 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F29**

12-Sep-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 2S Fed 006H

Sample ID: LCS-77243	Samp	Гуре: LC :	S	PA Method	8021B: Volatiles						
Client ID: LCSS	Batcl	h ID: 772	243	F	RunNo: 9	9436					
Prep Date: 8/31/2023	Analysis [Date: 9/ 4	4/2023	9	SeqNo: 30	629357	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.98	0.025	1.000	0	98.2	70	130				
Toluene	0.99	0.050	1.000	0	99.3	70	130				
Ethylbenzene	0.99	0.050	1.000	0	99.2	70	130				
Xylenes, Total	3.0	0.10	3.000	0	101	70	130				
Surr: 4-Bromofluorobenzene	1.1		1.000		108	39.1	146				

Sample ID: mb-77243	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volatiles				
Client ID: PBS	Batch	n ID: 772	243	F	RunNo: 99	9436					
Prep Date: 8/31/2023	Analysis D	ate: 9/4	4/2023	9	SeqNo: 36	629358	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0		1.000		0	39.1	146			S	

Sample ID: 2308f29-002ams	SampT	Гуре: МЅ	3	Tes	tCode: El	PA Method	8021B: Volati	les		•	
Client ID: BH23-01 2'	Batcl	h ID: 772	243	F	RunNo: 99	9436					
Prep Date: 8/31/2023	Analysis D	Date: 9/	5/2023	9	SeqNo: 30	629381	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.023	0.9398	0	99.6	70	130				
Toluene	0.95	0.047	0.9398	0.01480	99.6	70	130				
Ethylbenzene	0.95	0.047	0.9398	0	101	70	130				
Xylenes, Total	2.9	0.094	2.820	0	101	70	130				
Surr: 4-Bromofluorobenzene	1.0		0.9398		107	39.1	146				

Sample ID: 2308f29-002amsd	SampT	ype: MS	D	TestCode: EPA Method 8021B: Volatiles						
Client ID: BH23-01 2'	Batch	n ID: 772	243	F	RunNo: 99	9436				
Prep Date: 8/31/2023	Analysis D	oate: 9/5	5/2023	5	SeqNo: 36	629382	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9461	0	96.3	70	130	2.74	20	
Toluene	0.92	0.047	0.9461	0.01480	95.2	70	130	3.83	20	
Ethylbenzene	0.93	0.047	0.9461	0	98.0	70	130	2.78	20	
Xylenes, Total	2.8	0.095	2.838	0	98.5	70	130	2.21	20	
Surr: 4-Bromofluorobenzene	1.0		0.9461		107	39.1	146	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 6/27/2024 7:51:27 AM

Client Name: Vertex Resources, Inc.	es Work Order N	lumber: 2308F29		RcptNo: 1
Received By: Tracy Casarru	ıbias 8/29/2023 7:55:	00 AM		
Completed By: Tracy Casarru	bias 8/29/2023 10:03	3:38 AM		
Reviewed By: 7N 8/2	9/23			
Chain of Custody				
1. Is Chain of Custody complete	?	Yes 🗹	No 🗌	Not Present
2. How was the sample delivered	1?	<u>Courier</u>		
<u>Log In</u> 3. Was an attempt made to cool	the samples?	Yes 🗹	No 🗌	na 🗆
		Yes ⊻	No 🗌	na 🗆
4. Were all samples received at a	a temperature or 20 G to 6.0°C	res 💌		IVA L
5. Sample(s) in proper container	(s)?	Yes 🗹	No 🗌	
6. Sufficient sample volume for in	ndicated test(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bot	itles?	Yes 🗌	No 🗹	na 🗌
9. Received at least 1 vial with he	eadspace <1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹
10. Were any sample containers r	eceived broken?	Yes 🗌	No 🔽	# of preserved
11. Does paperwork match bottle (Note discrepancies on chain of		Yes 🗸	No 🗌	bottles checked for pH: (<2 or >12 unless note
12. Are matrices correctly identifie	• /	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were		Yes 🗹	No 🗌	/ 11
14. Were all holding times able to (If no, notify customer for auth		Yes 🗹	No 🗌	Checked by: #1 8-29-2
Special Handling (if applic	able)			
15. Was client notified of all discre	epancies with this order?	Yes	No 🗌	NA 🗹
Person Notified:	THE COLUMN TO SERVICE STREET	Date:		
By Whom:	HOUSE THE SECURITION OF THE SE	Via: ☐ eMail ☐ F	Phone Fax	In Person
Regarding:				
Client Instructions: Ma	ailing address, phone number, a	nd Email/Fax are missi	ing on COC-TN	MC 8/29/23
16. Additional remarks:				
Client did not relinquish	chain of custody			
17. Cooler Information Cooler No Temp °C	Condition Seal Intact Seal	No Seal Date	Signed By	

Chain-of-Custody Record			ď	Turn-Around	Turn-Around Time: HALL ENVIRONMENTAL					_												
Client:	Vont	ex 1	sevon.		 ⊑ ⊬ Standard	l □ Rus	h															
	V (/- V (Droject News			ANALYSIS LABORATORY www.hallenvironmental.com														
Mailing Address:			170m	Aldabr	a 25 F	ed #0064		40	04.11													
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Phone								Mes						-	/SIS	Req	uest			100		
	r Fax#:				Project Mana	ager:		21)	[[일	S				SO4) 	9 2	ent)					
	Package:		Colored A /Coll Mallet	-4'	Ker	t Stall	195	80	Σ.	PCB's		Ĭ.	W 1	PO4,			Abs			141		
□ Star			Level 4 (Full Valid	ation)		0 (00 (0)	0.40	TMB's (8021)	/ DRO / MRO)			8270SIMS					ent/					
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Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No. 2308F29	REEN MTBE /	(PP):8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	GDF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
9.25.33	13:05	Soil	13423-01	७।	4a	1	001							T					\exists	\top	\Box	
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Date: Time: Relinquished by: On Office Relinquished by:		www.	Mis	8/28/23 945	Work order: 1005986201 cc: succarty@vertex.ca																	
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				8/29/23 7:55	Œ	: 5	> MC		ι., λ	8	VCI		- 0				Mr I					



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 28, 2023

Kent Stallings
Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210
TEL: (505) 350-1336

FAX:

RE: Aldabra 25 Fed 006H OrderNo.: 2312269

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 12/6/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 0.0'

 Project:
 Aldabra 25 Fed 006H
 Collection Date: 12/4/2023 12:00:00 PM

 Lab ID:
 2312269-001
 Matrix: SOIL
 Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/14/2023 1:15:36 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/14/2023 1:15:36 PM
Surr: DNOP	93.4	69-147	%Rec	1	12/14/2023 1:15:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/13/2023 2:53:07 PM
Surr: BFB	97.8	15-244	%Rec	1	12/13/2023 2:53:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/13/2023 2:53:07 PM
Toluene	ND	0.048	mg/Kg	1	12/13/2023 2:53:07 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/13/2023 2:53:07 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/13/2023 2:53:07 PM
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	12/13/2023 2:53:07 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2200	150	mg/Kg	50	12/13/2023 3:59:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 2.0'

 Project:
 Aldabra 25 Fed 006H
 Collection Date: 12/4/2023 12:10:00 PM

 Lab ID:
 2312269-002
 Matrix: SOIL
 Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/14/2023 1:39:20 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/14/2023 1:39:20 PM
Surr: DNOP	91.1	69-147	%Rec	1	12/14/2023 1:39:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/13/2023 3:17:18 PM
Surr: BFB	99.2	15-244	%Rec	1	12/13/2023 3:17:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	12/13/2023 3:17:18 PM
Toluene	ND	0.050	mg/Kg	1	12/13/2023 3:17:18 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/13/2023 3:17:18 PM
Xylenes, Total	ND	0.10	mg/Kg	1	12/13/2023 3:17:18 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	12/13/2023 3:17:18 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	250	60	mg/Kg	20	12/12/2023 8:27:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-08 0.0'

 Project:
 Aldabra 25 Fed 006H
 Collection Date: 12/4/2023 12:20:00 PM

 Lab ID:
 2312269-003
 Matrix: SOIL
 Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/14/2023 2:03:08 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/14/2023 2:03:08 PM
Surr: DNOP	92.5	69-147	%Rec	1	12/14/2023 2:03:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/13/2023 3:41:05 PM
Surr: BFB	99.1	15-244	%Rec	1	12/13/2023 3:41:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/13/2023 3:41:05 PM
Toluene	ND	0.048	mg/Kg	1	12/13/2023 3:41:05 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/13/2023 3:41:05 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/13/2023 3:41:05 PM
Surr: 4-Bromofluorobenzene	99.4	39.1-146	%Rec	1	12/13/2023 3:41:05 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	63	61	mg/Kg	20	12/12/2023 9:04:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-08 2.0'

 Project:
 Aldabra 25 Fed 006H
 Collection Date: 12/4/2023 12:30:00 PM

 Lab ID:
 2312269-004
 Matrix: SOIL
 Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/14/2023 2:26:54 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/14/2023 2:26:54 PM
Surr: DNOP	93.3	69-147	%Rec	1	12/14/2023 2:26:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/13/2023 4:04:47 PM
Surr: BFB	99.1	15-244	%Rec	1	12/13/2023 4:04:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	12/13/2023 4:04:47 PM
Toluene	ND	0.050	mg/Kg	1	12/13/2023 4:04:47 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/13/2023 4:04:47 PM
Xylenes, Total	ND	0.10	mg/Kg	1	12/13/2023 4:04:47 PM
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	12/13/2023 4:04:47 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	87	60	mg/Kg	20	12/12/2023 9:16:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-10 0.0'

 Project:
 Aldabra 25 Fed 006H
 Collection Date: 12/4/2023 12:40:00 PM

 Lab ID:
 2312269-005
 Matrix: SOIL
 Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/14/2023 2:50:36 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/14/2023 2:50:36 PM
Surr: DNOP	90.7	69-147	%Rec	1	12/14/2023 2:50:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/13/2023 4:52:14 PM
Surr: BFB	99.6	15-244	%Rec	1	12/13/2023 4:52:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/13/2023 4:52:14 PM
Toluene	ND	0.049	mg/Kg	1	12/13/2023 4:52:14 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/13/2023 4:52:14 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/13/2023 4:52:14 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	12/13/2023 4:52:14 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	130	60	mg/Kg	20	12/12/2023 9:29:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-10 2.0'

 Project:
 Aldabra 25 Fed 006H
 Collection Date: 12/4/2023 12:50:00 PM

 Lab ID:
 2312269-006
 Matrix: SOIL
 Received Date: 12/6/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/14/2023 3:14:20 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/14/2023 3:14:20 PM
Surr: DNOP	90.5	69-147	%Rec	1	12/14/2023 3:14:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/13/2023 5:16:03 PM
Surr: BFB	104	15-244	%Rec	1	12/13/2023 5:16:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/13/2023 5:16:03 PM
Toluene	ND	0.048	mg/Kg	1	12/13/2023 5:16:03 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/13/2023 5:16:03 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/13/2023 5:16:03 PM
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	12/13/2023 5:16:03 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/12/2023 9:41:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312269 28-Dec-23

Client: Devon Energy

Project: Aldabra 25 Fed 006H

Sample ID: MB-79333 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79333 RunNo: 101808

Prep Date: 12/12/2023 Analysis Date: 12/12/2023 SeqNo: 3752837 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-79333 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79333 RunNo: 101808

Prep Date: 12/12/2023 Analysis Date: 12/12/2023 SeqNo: 3752838 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.3 90 110

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

4.3

WO#: **2312269**

28-Dec-23

Client:	Devon Energy
Project:	Aldabra 25 Fed 00

Surr: DNOP

Sample ID: MB-79324	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 79324	RunNo: 101809			
Prep Date: 12/12/2023	Analysis Date: 12/13/2023	SeqNo: 3752938 Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual			
Surr: DNOP	10 10.00	105 69 147			
Sample ID: LCS-79324	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics			
Client ID: LCSS	Batch ID: 79324	RunNo: 101809			
Prep Date: 12/12/2023	Analysis Date: 12/13/2023	SeqNo: 3752939 Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual			

Sample ID: MB-79326	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 79326	RunNo: 101809				
Prep Date: 12/12/2023	Analysis Date: 12/13/2023	SeqNo: 3754791	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual			
Surr: DNOP	8.2 10.00	82.3 69	147			

86.5

69

147

5.000

Sample ID: LCS-79326	SampType: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79	Batch ID: 79326			01809						
Prep Date: 12/12/2023	Analysis Date: 12	Analysis Date: 12/13/2023			754792	Units: %Rec					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	3.7	5.000	•	73.1	69	147			•		

Sample ID: MB-79381	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batch	Batch ID: 79381			RunNo: 10	01809								
Prep Date: 12/14/2023	Analysis D)ate: 12	/14/2023	5	SeqNo: 37	754826	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	ND	10												
Motor Oil Range Organics (MRO)	ND	50												
Surr: DNOP	6.9		10.00		68.7	69	147			S				

Sample ID: LCS-79381	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	n ID: 79 3	381	F	RunNo: 10	01809							
Prep Date: 12/14/2023	Analysis D	Analysis Date: 12/14/2023		SeqNo: 3	754827	Units: mg/K							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	61.9	130						
Surr: DNOP	3.5		5.000		69.0	69	147						

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312269 28-Dec-23**

Client: Devon Energy

Project: Aldabra 25 Fed 006H

Sample ID: MB-79381 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 79381 RunNo: 101864

Prep Date: 12/14/2023 Analysis Date: 12/15/2023 SeqNo: 3756007 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.0 10.00 89.9 69 147

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

O#: **2312269 28-Dec-23**

WO#:

Client: Devon Energy

Sample ID: mb-79322

Project: Aldabra 25 Fed 006H

Sample ID: Ics-79322	SampT	ype: LC :	S	Tes						
Client ID: LCSS	Batch	n ID: 79 3	322	F	RunNo: 10	1798				
Prep Date: 12/12/2023	Analysis Date: 12/13/2023			9	SeqNo: 37	752581	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	2100		1000		211	15	244			

Batch ID: 79322 Client ID: PBS RunNo: 101798 Prep Date: Analysis Date: 12/13/2023 12/12/2023 SeqNo: 3752582 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND Surr: BFB 1000 1000 100 15 244

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2312269-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BH23-07 0.0^t Batch ID: 79322 RunNo: 101798 Prep Date: 12/12/2023 Analysis Date: 12/13/2023 SeqNo: 3753453 Units: mg/Kg PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) 31 4.8 24.06 128 70 130 Surr: BFB 2300 962.5 243 15 244

Sample ID: 2312269-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH23-07 0.0^t Batch ID: 79322 RunNo: 101798 Prep Date: 12/12/2023 Analysis Date: 12/13/2023 SeqNo: 3753455 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 4.9 109 70 130 15.3 20 24.27 Surr: BFB 2200 970.9 223 15 244 0 0

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **2312269**

28-Dec-23

Client: Devon Energy
Project: Aldabra 25 Fed 006H

Surr: 4-Bromofluorobenzene

Sample ID: LCS-79322 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 79322 RunNo: 101798 Prep Date: 12/12/2023 Analysis Date: 12/13/2023 SeqNo: 3752600 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene 0.97 0.025 1.000 0 97.2 70 130 Toluene 0.97 0.050 1.000 0 97.0 70 130 Ethylbenzene 0.98 0.050 1.000 0 98.3 70 130 Xylenes, Total 3.0 0.10 3.000 0 99.6 70 130

104

39.1

146

Sample ID: mb-79322 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 79322 RunNo: 101798 Prep Date: Analysis Date: 12/13/2023 12/12/2023 SeqNo: 3752602 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual 0.025 Benzene ND Toluene ND 0.050 Ethylbenzene 0.050 ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 101 39.1 146

1.000

Sample ID: 2312269-002AMS	TestCode: EPA Method 8021B: Volatiles									
Client ID: BH23-07 2.0'	Batc	h ID: 79 3	322	F	RunNo: 10					
Prep Date: 12/12/2023	Analysis [Analysis Date: 12/13/2023			SeqNo: 3	753476	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit %RPD		RPDLimit	Qual
Benzene	0.96	0.025	0.9940	0	96.7	70	130			
Toluene	0.98	0.050	0.9940	0	98.7	70	130			
Ethylbenzene	1.0	0.050	0.9940	0	100	70	130			
Xylenes, Total	3.0	0.099	2.982	0	102	70	130			
Surr: 4-Bromofluorobenzene	1.0		0.9940		103	39.1	146			

Sample ID: 2312269-002AMSD	SampT	ype: MS	D	Tes	8021B: Volati	les				
Client ID: BH23-07 2.0'	Batch	n ID: 793	322	F	RunNo: 10					
Prep Date: 12/12/2023	Analysis D	ate: 12	/13/2023	5	SeqNo: 37	753477	Units: mg/K			
Analyte	Result	Result PQL SPH		SPK Ref Val	%REC	LowLimit	HighLimit %RPD		RPDLimit	Qual
Benzene	0.99	0.025	0.9911	0	99.8	70	130	2.88	20	
Toluene	1.0	0.050	0.9911	0	101	70	130	1.64	20	
Ethylbenzene	1.0	0.050	0.9911	0	103	70	130	1.99	20	
Xylenes, Total	3.1	0.099	2.973	0	103 70		130	1.18	20	
Surr: 4-Bromofluorobenzene 1.0 0.9911			102	39.1	146	0	0			

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Client Name:

Received By:

Completed By:

Reviewed By:

Chain of Custody

1. Is Chain of Custody complete? 2. How was the sample delivered?

Sample(s) in proper container(s)?

3. Was an attempt made to cool the samples?

6. Sufficient sample volume for indicated test(s)?

Environment Testin

Devon Energy

Tracy Casarrubias

Tracy Casarrubias

on 12/6/23

4. Were all samples received at a temperature of >0° C to 6.0°C

Eurofins Environment Testing South Central. LLC 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Yes 🗌

Courier

Yes 🔽

Yes 🗸

Yes 🔽

Yes 🗹

Work Order Number: 2312269

12/6/2023 7:45:00 AM

12/6/2023 10:16:52 AM

Not Present

NA 🗌

NA 🔲

Released to Imaging: 6/27/2024 7:51:27 AM

No 🔽

No 🗌

No 🗌

No 🗌

No 🗌

RcptNo: 1

No Yes 🗹 7. Are samples (except VOA and ONG) properly preserved? NA 🗌 No 🗸 Yes 🗌 8. Was preservative added to bottles? NA 🔽 Yes 🗍 No 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🔽 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 11. Does paperwork match bottle labels? Yes 🗸 (<2 or,>12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🔽 12 Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗹 13. Is it clear what analyses were requested? 11 12-6-23 Checked by: No 🗌 Yes 🗸 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗹 Yes [] No 🗌 15. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: Mailing address, phone number and Email/Fax are missing on COC-TMC 12/6/23 Additional remarks: Client did not relinquish chain of custody 17. Cooler Information Temp °C Seal Date Signed By Cooler No Condition Seal Intact Seal No 2.7 Good Yogi Page 1 of 1

C	Chain-of-Custody Record		ord	Turn-Around Time:						н	ΔΙΙ	F	NV	TE	201	NM	ENT	ΓΑΙ	_	
Client:			in le		Project Name: Aldabra 25 Fed #006 H				ANALYSIS LABORATORY www.hallenvironmental.com											
Mailing	Address							4901 Hawkins NE - Albuquerque, NM 87109												
					Project #: 23E-04614				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											
Phone #	‡ :	110											and the second		Req					or services
email or	Fax#:				Project Mana	Stallins		[3]	/MRO)	S	1	(0)	SO ₄			sent				
QA/QC F	Package:				Kent	0 tu//195	<u>.</u>	(8021)	Σ	PCB's		8270SIMS	PO4,			Abs		-		
☐ Stan	dard		☐ Level 4 (Full Va	lidation)		111		TMB's	/ DRO			270				sent				
Accredi			mpliance		Sampler: /	₩ Yes	□ No uoo.		70	308/	04.1	_	NO ₂ ,		a	Pres	- 10			
□ NEL/		□ Other			# of Coolers: No uog. # of Coolers: \ Cooler Temp(including CF): 2.9-0.2-2-3 (°C)				GR	ides	2d 5	100	S S		8	E	let the	4 1		
	(1)00)_				Cooler Temp(Including CF): 2.9-0.2=2-7 (°C)				15D	stic	letho	× 83	, L	Q A	emi	olifo	55			
Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	2312269	BTEX	TPH: 015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	CI)F, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
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			-5 10 15 25 25 20				Section 1 and 1 and 1	\vdash			G.		A Tol	11 11	25 /1	570		Ti et e		
								 	\vdash							7		7 1000		
Date:	Date: Time: Relinquished by:			415	Received by: Via: Date Time				Remarks: (C: Kstallings @vertex.ca ahorns@vertex ca Wark Order # 1005986201											
Date:	Time: Relinquished by: 13 900 Ammun				Received by: Via: Councy Date Time				Wark Order # 1005986201											



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 13, 2024

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL:
FAX:

RE: Aldabra 25 Federal 6 H OrderNo.: 2402007

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 2/1/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 12'

Project: Aldabra 25 Federal 6 H **Collection Date:** 1/30/2024 10:00:00 AM 2402007-001 Lab ID: Matrix: SOIL Received Date: 2/1/2024 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/2/2024 10:56:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/2/2024 10:56:48 PM
Surr: DNOP	128	61.2-134	%Rec	1	2/2/2024 10:56:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/5/2024 8:12:50 PM
Surr: BFB	101	15-244	%Rec	1	2/5/2024 8:12:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	2/5/2024 8:12:50 PM
Toluene	ND	0.046	mg/Kg	1	2/5/2024 8:12:50 PM
Ethylbenzene	ND	0.046	mg/Kg	1	2/5/2024 8:12:50 PM
Xylenes, Total	ND	0.091	mg/Kg	1	2/5/2024 8:12:50 PM
Surr: 4-Bromofluorobenzene	88.5	39.1-146	%Rec	1	2/5/2024 8:12:50 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1100	60	mg/Kg	20	2/3/2024 4:43:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Date Reported: 2/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 13.5'

 Project:
 Aldabra 25 Federal 6 H
 Collection Date: 1/30/2024 11:00:00 AM

 Lab ID:
 2402007-002
 Matrix: SOIL
 Received Date: 2/1/2024 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/2/2024 11:20:06 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/2/2024 11:20:06 PM
Surr: DNOP	103	61.2-134	%Rec	1	2/2/2024 11:20:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/5/2024 8:36:33 PM
Surr: BFB	99.7	15-244	%Rec	1	2/5/2024 8:36:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	2/5/2024 8:36:33 PM
Toluene	ND	0.047	mg/Kg	1	2/5/2024 8:36:33 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/5/2024 8:36:33 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/5/2024 8:36:33 PM
Surr: 4-Bromofluorobenzene	87.5	39.1-146	%Rec	1	2/5/2024 8:36:33 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	110	60	mg/Kg	20	2/3/2024 4:56:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2402007**

13-Feb-24

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Federal 6 H

Sample ID: MB-80236 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80236 RunNo: 102858

Prep Date: 2/2/2024 Analysis Date: 2/3/2024 SeqNo: 3800520 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-80236 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80236 RunNo: 102858

Prep Date: 2/2/2024 Analysis Date: 2/3/2024 SeqNo: 3800521 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.3 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

6.4

5.9

WO#: 2402007

13-Feb-24

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Federal 6 H

Sample ID: MB-80224 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

PBS Client ID: Batch ID: 80224 RunNo: 102843

Units: %Rec Prep Date: 2/1/2024 Analysis Date: 2/2/2024 SeqNo: 3800103

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Surr: DNOP 12 10.00 123 61.2 134

5.000

5.000

Sample ID: LCS-80224 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 80224 RunNo: 102843 Prep Date: Analysis Date: 2/2/2024 SeqNo: 3800104 Units: %Rec %REC %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit Qual

127

119

69

147

147

Sample ID: MB-80220 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 80220 RunNo: 102843 Prep Date: Analysis Date: 2/2/2024 SeqNo: 3800108 Units: mg/Kg 2/1/2024 Analyte Result POI SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 110 61.2 134

SampType: LCS Sample ID: LCS-80220 TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 80220 RunNo: 102843 Prep Date: Analysis Date: 2/2/2024 SeqNo: 3800109 2/1/2024 Units: mg/Kg HighLimit Analyte Result POI SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 59 10 50.00 0 117 61.9

Qualifiers:

Surr: DNOP

Surr: DNOP

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402007

13-Feb-24

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Federal 6 H

Sample ID: Ics-80203 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 80203 RunNo: 102873 Prep Date: 2/1/2024 Analysis Date: 2/5/2024 SeqNo: 3800986 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 102 70 130 Surr: BFB 2100 1000 206 15 244

Sample ID: mb-80203 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 80203 RunNo: 102873 Prep Date: Analysis Date: 2/5/2024 2/1/2024 SeqNo: 3800987 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 990

1000

99.1

15

244

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402007

13-Feb-24

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Federal 6 H

Sample ID: LCS-80203	Samp	Гуре: LC	S	Tes							
Client ID: LCSS	Batcl	h ID: 80 2	203	F	RunNo: 10	02873					
Prep Date: 2/1/2024	Analysis [Date: 2/	5/2024	5	SeqNo: 3800993			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.84	0.025	1.000	0	84.4	70	130				
Toluene	0.84	0.050	1.000	0	84.2	70	130				
Ethylbenzene	0.85	0.050	1.000	0	85.4	70	130				
Xylenes, Total	2.6	0.10	3.000	0	85.8	70	130				
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	39.1	146				

Sample ID: mb-80203	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les				
Client ID: PBS	Batcl	h ID: 80 2	203	F	RunNo: 10	02873						
Prep Date: 2/1/2024	Analysis [Date: 2/	5/2024	9	SeqNo: 38	300994	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	39.1	146					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 6 of 6

Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Sample Log-In Check List

Released to Imaging: 6/27/2024 7:51:27 AM

		website: www.na	menvironmenta	41.COM	
Client Name:	Vertex Resources	Work Order Number	2402007	-	RcptNo: 1
Received By:	Tracy Casarrubias	2/1/2024 7:30:00 AM			
Completed By:	Desiree Dominguez	2/1/2024 8:31:18 AM		TA	
Reviewed By:	M 2-1-24				
//					
Chain of Cus	<u>tody</u>				
1. Is Chain of Co	ustody complete?		Yes \square	No 🔽	Not Present
2. How was the	sample delivered?		Courier		
Log In					
	npt made to cool the sample	s?	Yes 🗸	No 🗌	NA \square
				🗖	
4. Were all samp	oles received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗀	NA 📙
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sam	ple volume for indicated tes	t(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌	
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA \square
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA ☑
10. Were any san	nple containers received bro	ken?	Yes	No 🗸	# of processed
			_		# of preserved bottles checked
	ork match bottle labels?		Yes 🗹	No 🗀	for pH: (<2 or >12 unless noted)
	ancies on chain of custody) correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?
	t analyses were requested?	or ousloay:	Yes 🗹	No 🗌	
	ng times able to be met?		Yes 🗹	No 🗆	Checked by: 2/1
	ustomer for authorization.)				
Special Handl	ing (if applicable)				
15. Was client no	tified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹
Person	Notified:	Date:			
By Who	om:	Via: [_ eMail _	Phone Fax	☐ In Person
Regard	ing:				
Client In	nstructions:				POSTON ASSESSED
16. Additional re	marks:				
Mailing	address, phone number and	d Email/Fax are missing on	COC- DAD 2/	1/24	
17. Cooler Infor		z annumento con transfer			
Cooler No			Seal Date	Signed By	
LI .	2.0 Good	Yes Yogi			

C	hain-	of-Cu	stody Record	Turn-Around	Time:			HALL ENVIRONMENTAL					L								
Client:	Ver	tex,	/Devon	Standard	Rush	5 Day				15.5								RAT			į
		•		Project Name):		100	www.hallenvironmental.com													
Mailing	Address	: 00	file	Aldab	ra 25 Fe	dral #6H		4901 Hawkins NE - Albuquerque, NM 87109													
A. "I.				Project #:) 	Tel. 505-345-3975 Fax 505-345-4107													
Phone 7	# :			23 <i>E</i> -	04614	a apadrous		Analysis Request													
email o	r Fax#:			Project Mana	ger:		5	(S)					SO ₄			ent)	(80 miles				
QA/QC I □ Stan	Package: dard		☐ Level 4 (Full Validation)	Kent S	Stallings		3's (80)	PCB's (80)				-									
Accredi			mpliance		PAG ZE	T No.			/808/	1.1	or 827		NO ₂ ,		7	rese					
□ NEL		□ Other		On Ice: # of Coolers:	√ Yes	□ No 110gi	MTBE/	GRC	ides	9d 50	100	tals	Š	div i	9	E) III	769	1904			
	(1) pc)			Cooler Temp		1-0.1=2.0 (°C)	ĮĒ	15D(stic	ethc	y 83	3 Me	Br, NO ₃ ,	8	emi	olifo					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2401007	RIEX	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	CPF, E	8260 (VOA)	8270 (Semi-VOA)	Total Co					
	10:00	4	BH 73-11 12'	40270		-001	V	V		11			V			103750	7,197	90.1	real (
130/01	11:00	1	BH23-11 12.5'	100	4	-002	4	1				u=)//	1	H-1	- 111	1.11(7)	errane i	and the	.181		
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Date:	Time:	Relinquish	ned by:	Received by:	Via:	Date Time	Rei	mark	s:	Dir o H sta nco	ee	+6	الزر	to	: 0	ew	0				
))))// Date:	Time:	Relinquis	hed by:	Received by:	Via: (our o	Date Time	-	_	W	<i>→</i> (-1		100	(a) 1A	مل،	v.(4	_					
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12/1/	1 1/100			brantracted to other	- Taborator	This serves as notice of the	is nos	sihility	Anv s	sub-con	tracted	data	will b	e clea	rlv						

Released to Imaging: 6/27/2024 7:51:27 AM



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 28, 2023

Kent Stallings
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL:
FAX:

RE: Aldabra 25 Fed 6 OrderNo.: 2312374

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 18 sample(s) on 12/7/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 9:00:00 AM

 Lab ID:
 2312374-001
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/15/2023 11:01:50 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/15/2023 11:01:50 AM
Surr: DNOP	90.4	69-147	%Rec	1	12/15/2023 11:01:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2023 4:46:43 AM
Surr: BFB	103	15-244	%Rec	1	12/14/2023 4:46:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/14/2023 4:46:43 AM
Toluene	ND	0.049	mg/Kg	1	12/14/2023 4:46:43 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2023 4:46:43 AM
Xylenes, Total	ND	0.097	mg/Kg	1	12/14/2023 4:46:43 AM
Surr: 4-Bromofluorobenzene	104	39.1-146	%Rec	1	12/14/2023 4:46:43 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/13/2023 12:35:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-06 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 9:10:00 AM

 Lab ID:
 2312374-002
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/15/2023 11:12:19 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/15/2023 11:12:19 AM
Surr: DNOP	93.1	69-147	%Rec	1	12/15/2023 11:12:19 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/14/2023 5:10:51 AM
Surr: BFB	99.8	15-244	%Rec	1	12/14/2023 5:10:51 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	12/14/2023 5:10:51 AM
Toluene	ND	0.046	mg/Kg	1	12/14/2023 5:10:51 AM
Ethylbenzene	ND	0.046	mg/Kg	1	12/14/2023 5:10:51 AM
Xylenes, Total	ND	0.093	mg/Kg	1	12/14/2023 5:10:51 AM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	12/14/2023 5:10:51 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/13/2023 12:47:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 9:20:00 AM

 Lab ID:
 2312374-003
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/15/2023 11:22:49 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/15/2023 11:22:49 AM
Surr: DNOP	92.3	69-147	%Rec	1	12/15/2023 11:22:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2023 5:34:48 AM
Surr: BFB	102	15-244	%Rec	1	12/14/2023 5:34:48 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/14/2023 5:34:48 AM
Toluene	ND	0.049	mg/Kg	1	12/14/2023 5:34:48 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2023 5:34:48 AM
Xylenes, Total	ND	0.097	mg/Kg	1	12/14/2023 5:34:48 AM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	12/14/2023 5:34:48 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/13/2023 1:00:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-09 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 9:30:00 AM

 Lab ID:
 2312374-004
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/15/2023 11:33:19 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/15/2023 11:33:19 AM
Surr: DNOP	84.2	69-147	%Rec	1	12/15/2023 11:33:19 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/14/2023 5:58:47 AM
Surr: BFB	101	15-244	%Rec	1	12/14/2023 5:58:47 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/14/2023 5:58:47 AM
Toluene	ND	0.047	mg/Kg	1	12/14/2023 5:58:47 AM
Ethylbenzene	ND	0.047	mg/Kg	1	12/14/2023 5:58:47 AM
Xylenes, Total	ND	0.094	mg/Kg	1	12/14/2023 5:58:47 AM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	12/14/2023 5:58:47 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/13/2023 1:12:34 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 9:40:00 AM

 Lab ID:
 2312374-005
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: PRD
Diesel Range Organics (DRO)	370	97		mg/Kg	10	12/15/2023 10:40:51 AM
Motor Oil Range Organics (MRO)	870	480		mg/Kg	10	12/15/2023 10:40:51 AM
Surr: DNOP	0	69-147	S	%Rec	10	12/15/2023 10:40:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/14/2023 6:22:43 AM
Surr: BFB	97.3	15-244		%Rec	1	12/14/2023 6:22:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/14/2023 6:22:43 AM
Toluene	ND	0.050		mg/Kg	1	12/14/2023 6:22:43 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/14/2023 6:22:43 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/14/2023 6:22:43 AM
Surr: 4-Bromofluorobenzene	97.7	39.1-146		%Rec	1	12/14/2023 6:22:43 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/13/2023 1:24:58 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 9:50:00 AM

 Lab ID:
 2312374-006
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: PRD
Diesel Range Organics (DRO)	940	93		mg/Kg	10	12/15/2023 10:09:28 AM
Motor Oil Range Organics (MRO)	790	460		mg/Kg	10	12/15/2023 10:09:28 AM
Surr: DNOP	0	69-147	S	%Rec	10	12/15/2023 10:09:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2023 6:46:33 AM
Surr: BFB	98.1	15-244		%Rec	1	12/14/2023 6:46:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/14/2023 6:46:33 AM
Toluene	ND	0.048		mg/Kg	1	12/14/2023 6:46:33 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2023 6:46:33 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/14/2023 6:46:33 AM
Surr: 4-Bromofluorobenzene	99.8	39.1-146		%Rec	1	12/14/2023 6:46:33 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	59		mg/Kg	20	12/13/2023 2:02:11 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-12 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 10:00:00 AM

 Lab ID:
 2312374-007
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/15/2023 11:43:52 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/15/2023 11:43:52 AM
Surr: DNOP	97.5	69-147	%Rec	1	12/15/2023 11:43:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2023 7:10:22 AM
Surr: BFB	103	15-244	%Rec	1	12/14/2023 7:10:22 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	12/14/2023 7:10:22 AM
Toluene	ND	0.048	mg/Kg	1	12/14/2023 7:10:22 AM
Ethylbenzene	ND	0.048	mg/Kg	1	12/14/2023 7:10:22 AM
Xylenes, Total	ND	0.095	mg/Kg	1	12/14/2023 7:10:22 AM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	12/14/2023 7:10:22 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	59	mg/Kg	20	12/13/2023 2:14:36 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-12 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 10:10:00 AM

 Lab ID:
 2312374-008
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/15/2023 11:54:24 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/15/2023 11:54:24 AM
Surr: DNOP	95.0	69-147	%Rec	1	12/15/2023 11:54:24 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2023 5:20:00 PM
Surr: BFB	103	15-244	%Rec	1	12/14/2023 5:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2023 5:20:00 PM
Toluene	ND	0.048	mg/Kg	1	12/14/2023 5:20:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/14/2023 5:20:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	12/14/2023 5:20:00 PM
Surr: 4-Bromofluorobenzene	98.8	39.1-146	%Rec	1	12/14/2023 5:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/14/2023 1:05:18 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-13 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 10:20:00 AM

 Lab ID:
 2312374-009
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	11	9.3	mg/Kg	1	12/15/2023 12:04:57 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/15/2023 12:04:57 PM
Surr: DNOP	76.6	69-147	%Rec	1	12/15/2023 12:04:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2023 6:26:00 PM
Surr: BFB	97.8	15-244	%Rec	1	12/14/2023 6:26:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2023 6:26:00 PM
Toluene	ND	0.048	mg/Kg	1	12/14/2023 6:26:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/14/2023 6:26:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/14/2023 6:26:00 PM
Surr: 4-Bromofluorobenzene	97.1	39.1-146	%Rec	1	12/14/2023 6:26:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2300	60	mg/Kg	20	12/14/2023 1:20:26 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-13 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 10:30:00 AM

 Lab ID:
 2312374-010
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: PRD				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/15/2023 12:15:31 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/15/2023 12:15:31 PM
Surr: DNOP	76.3	69-147	%Rec	1	12/15/2023 12:15:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/14/2023 6:48:00 PM
Surr: BFB	103	15-244	%Rec	1	12/14/2023 6:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	12/14/2023 6:48:00 PM
Toluene	ND	0.046	mg/Kg	1	12/14/2023 6:48:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	12/14/2023 6:48:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	12/14/2023 6:48:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	12/14/2023 6:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	290	60	mg/Kg	20	12/14/2023 1:36:15 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 10:40:00 AM

 Lab ID:
 2312374-011
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/15/2023 12:26:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/15/2023 12:26:10 PM
Surr: DNOP	97.8	69-147	%Rec	1	12/15/2023 12:26:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/14/2023 7:10:00 PM
Surr: BFB	98.6	15-244	%Rec	1	12/14/2023 7:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	12/14/2023 7:10:00 PM
Toluene	ND	0.046	mg/Kg	1	12/14/2023 7:10:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	12/14/2023 7:10:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	12/14/2023 7:10:00 PM
Surr: 4-Bromofluorobenzene	98.9	39.1-146	%Rec	1	12/14/2023 7:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/14/2023 1:50:51 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 10:50:00 AM

 Lab ID:
 2312374-012
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/15/2023 12:36:46 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/15/2023 12:36:46 PM
Surr: DNOP	99.0	69-147	%Rec	1	12/15/2023 12:36:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2023 7:32:00 PM
Surr: BFB	97.8	15-244	%Rec	1	12/14/2023 7:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2023 7:32:00 PM
Toluene	ND	0.049	mg/Kg	1	12/14/2023 7:32:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2023 7:32:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/14/2023 7:32:00 PM
Surr: 4-Bromofluorobenzene	97.3	39.1-146	%Rec	1	12/14/2023 7:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/14/2023 2:06:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-15 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 11:00:00 AM

 Lab ID:
 2312374-013
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/15/2023 12:47:22 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/15/2023 12:47:22 PM
Surr: DNOP	94.4	69-147	%Rec	1	12/15/2023 12:47:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/14/2023 7:54:00 PM
Surr: BFB	101	15-244	%Rec	1	12/14/2023 7:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	12/14/2023 7:54:00 PM
Toluene	ND	0.050	mg/Kg	1	12/14/2023 7:54:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/14/2023 7:54:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/14/2023 7:54:00 PM
Surr: 4-Bromofluorobenzene	99.5	39.1-146	%Rec	1	12/14/2023 7:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	480	60	mg/Kg	20	12/14/2023 2:21:11 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-15 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 11:10:00 AM

 Lab ID:
 2312374-014
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/15/2023 12:57:59 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/15/2023 12:57:59 PM
Surr: DNOP	99.0	69-147	%Rec	1	12/15/2023 12:57:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/14/2023 8:16:00 PM
Surr: BFB	99.2	15-244	%Rec	1	12/14/2023 8:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	12/14/2023 8:16:00 PM
Toluene	ND	0.046	mg/Kg	1	12/14/2023 8:16:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	12/14/2023 8:16:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	12/14/2023 8:16:00 PM
Surr: 4-Bromofluorobenzene	99.9	39.1-146	%Rec	1	12/14/2023 8:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	300	60	mg/Kg	20	12/14/2023 2:36:21 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 0'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 11:20:00 AM

 Lab ID:
 2312374-015
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	13	9.2	mg/Kg	1	12/15/2023 1:08:38 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/15/2023 1:08:38 PM
Surr: DNOP	111	69-147	%Rec	1	12/15/2023 1:08:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/14/2023 8:38:00 PM
Surr: BFB	102	15-244	%Rec	1	12/14/2023 8:38:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	12/14/2023 8:38:00 PM
Toluene	ND	0.047	mg/Kg	1	12/14/2023 8:38:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/14/2023 8:38:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/14/2023 8:38:00 PM
Surr: 4-Bromofluorobenzene	98.8	39.1-146	%Rec	1	12/14/2023 8:38:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/14/2023 2:51:30 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 2'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 11:30:00 AM

 Lab ID:
 2312374-016
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/15/2023 1:19:17 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/15/2023 1:19:17 PM
Surr: DNOP	104	69-147	%Rec	1	12/15/2023 1:19:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2023 9:00:00 PM
Surr: BFB	101	15-244	%Rec	1	12/14/2023 9:00:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2023 9:00:00 PM
Toluene	ND	0.048	mg/Kg	1	12/14/2023 9:00:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/14/2023 9:00:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/14/2023 9:00:00 PM
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	12/14/2023 9:00:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/14/2023 3:36:56 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 4'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 11:40:00 AM

 Lab ID:
 2312374-017
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR					Analyst: PRD	
Diesel Range Organics (DRO)	1200	93		mg/Kg	10	12/15/2023 10:19:54 AM
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	12/15/2023 10:19:54 AM
Surr: DNOP	0	69-147	S	%Rec	10	12/15/2023 10:19:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2023 12:52:52 PM
Surr: BFB	101	15-244		%Rec	1	12/14/2023 12:52:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	12/14/2023 12:52:52 PM
Toluene	ND	0.048		mg/Kg	1	12/14/2023 12:52:52 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2023 12:52:52 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/14/2023 12:52:52 PM
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	12/14/2023 12:52:52 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/14/2023 3:52:05 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-11 5'

 Project:
 Aldabra 25 Fed 6
 Collection Date: 12/5/2023 11:50:00 AM

 Lab ID:
 2312374-018
 Matrix: SOIL
 Received Date: 12/7/2023 8:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: PRD
Diesel Range Organics (DRO)	1900	94		mg/Kg	10	12/15/2023 10:30:22 AM
Motor Oil Range Organics (MRO)	1700	470		mg/Kg	10	12/15/2023 10:30:22 AM
Surr: DNOP	0	69-147	S	%Rec	10	12/15/2023 10:30:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2023 1:16:34 PM
Surr: BFB	98.6	15-244		%Rec	1	12/14/2023 1:16:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	12/14/2023 1:16:34 PM
Toluene	ND	0.049		mg/Kg	1	12/14/2023 1:16:34 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2023 1:16:34 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/14/2023 1:16:34 PM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	12/14/2023 1:16:34 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/14/2023 4:07:14 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312374 28-Dec-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Fed 6

Sample ID: MB-79333 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79333 RunNo: 101808

Prep Date: 12/12/2023 Analysis Date: 12/12/2023 SeqNo: 3752837 Units: mq/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-79333 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79333 RunNo: 101808

Prep Date: 12/12/2023 Analysis Date: 12/12/2023 SeqNo: 3752838 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.3 90 110

Sample ID: MB-79375 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79375 RunNo: 101822

Prep Date: 12/13/2023 Analysis Date: 12/14/2023 SeqNo: 3754047 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-79375 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79375 RunNo: 101822

Prep Date: 12/13/2023 Analysis Date: 12/14/2023 SeqNo: 3754048 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.3 90 110

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

2312374 28-Dec-23

WO#:

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Fed 6

Sample ID: LCS-79391 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 79391 RunNo: 101872 Prep Date: 12/14/2023 Analysis Date: 12/15/2023 SeqNo: 3756380 Units: mq/Kq SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL SPK value LowLimit Qual Diesel Range Organics (DRO) 49 10 50.00 n 97.6 61.9 130 Surr: DNOP 4.8 5.000 96.5 147 69

Sample ID: LCS-79406 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 79406 RunNo: 101872 Prep Date: Analysis Date: 12/15/2023 12/15/2023 SeqNo: 3756382 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 5.000 147

Sample ID: MB-79391 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 79391 RunNo: 101872 Analysis Date: 12/15/2023 Prep Date: 12/14/2023 SeqNo: 3756383 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 10 Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.3 10.00 93.3 69 147

Sample ID: MB-79406 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 79406 RunNo: 101872 Prep Date: 12/15/2023 Analysis Date: 12/15/2023 SeqNo: 3756385 Units: %Rec Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 9.5 10.00 94.9 69 147

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312374 28-Dec-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Fed 6

Sample ID: Ics-79322	SampType:	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID:	79322	F	RunNo: 10	1798				
Prep Date: 12/12/2023	Analysis Date:	12/13/2023	5	SeqNo: 37	52581	Units: mg/K	(g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0 25.00	0	105	70	130			
Surr: BFB	2100	1000		211	15	244			
Sample ID: mb-79322	SampType:	MBLK	Tes	stCode: EP	A Method	8015D: Gaso	line Range)	
Client ID: PBS	Batch ID:	79322	F	RunNo: 10	1798				
Prep Date: 12/12/2023	Analysis Date:	12/13/2023	5	SeqNo: 37	52582	Units: mg/K	(g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							
Surr: BFB	1000	1000		100	15	244			
Sample ID: Ics-79347	SampType:	LCS	Tes	stCode: EP	A Method	8015D: Gaso	line Range)	
Client ID: LCSS	Batch ID:	79347	F	RunNo: 10	1840				
Prep Date: 12/13/2023	Analysis Date:	12/14/2023	5	SeqNo: 37	54833	Units: mg/K	(g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0 25.00	0	103	70	130			
Surr: BFB	2100	1000		211	15	244			
Sample ID: mb-79347	SampType:	MBLK	Tes	stCode: EP	A Method	8015D: Gaso	line Range	•	
Client ID: PBS	Batch ID:	79347	F	RunNo: 10	1840				
Prep Date: 12/13/2023	Analysis Date:	12/14/2023	(SeqNo: 37	54834	Units: mg/K	(g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: Ics-79332	SampT	SampType: LCS TestCode: EPA Me						line Range		
Client ID: LCSS	Batch	n ID: 79 3	332	F	RunNo: 10	01852				
Prep Date: 12/12/2023	Analysis D	oate: 12	/14/2023	SeqNo: 3755274 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	70	130			
Surr: BFB	2300		1000		228	15	244			

Sample ID: mb-79332	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline	Range
Client ID: PBS	Batch ID: 79332	RunNo: 101852	
Prep Date: 12/12/2023	Analysis Date: 12/14/2023	SeqNo: 3755275 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %	RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Gasoline Range Organics (GRO)

Surr: BFB

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

ND

1000

5.0

1000

B Analyte detected in the associated Method Blank

99.9

15

244

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312374 28-Dec-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Fed 6

Sample ID: mb-79332 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 79332 RunNo: 101852

Prep Date: 12/12/2023 Analysis Date: 12/14/2023 SeqNo: 3755275 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 101 15 244

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312374 28-Dec-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Fed 6

Sample ID: LCS-79322	Samp	Гуре: LC	S	Tes	tCode: EF	les						
Client ID: LCSS	Batcl	h ID: 79 3	322	F	RunNo: 10	01798						
Prep Date: 12/12/2023	Analysis [Date: 12	/13/2023	5	SeqNo: 37	752600	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.97	0.025	1.000	0	97.2	70	130					
Toluene	0.97	0.050	1.000	0	97.0	70	130					
Ethylbenzene	0.98	0.050	1.000	0	98.3	70	130					
Xylenes, Total	3.0	0.10	3.000	0	99.6	70	130					
Surr: 4-Bromofluorobenzene	1.0		1.000		104	39.1	146					

Sample ID: mb-79322	SampT	Гуре: МВ	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	h ID: 79 3	322	F	RunNo: 10)1798						
Prep Date: 12/12/2023	Analysis D)ate: 12	2/13/2023	8	SeqNo: 37	752602	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025			<u> </u>	<u> </u>	<u>, </u>	<u> </u>	<u>, </u>			
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146					

Sample ID: LCS-79347	SampT	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	n ID: 793	D: 79347 RunNo: 101840							
Prep Date: 12/13/2023	Analysis D	oate: 12	12/14/2023 SeqNo: 3754843 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	70	130			
Toluene	0.98	0.050	1.000	0	98.0	70	130			
Ethylbenzene	1.0	0.050	1.000	0	99.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	101	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: mb-79347	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 79 3	347	F	RunNo: 10	01840				
Prep Date: 12/13/2023	Analysis D	Date: 12	/14/2023	5	SeqNo: 37	754844	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312374

28-Dec-23

Client: Vertex Resources Services, Inc.

Project: Aldabra 25 Fed 6

Sample ID: 2312374-008ams	SampT	уре: МЅ	;	Tes	tCode: EF	les					
Client ID: BH23-12 2'	Batch	n ID: 793	332	F	RunNo: 10	1852					
Prep Date: 12/12/2023	Analysis D)ate: 12	/14/2023	SeqNo: 3755327 Units				nits: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.024	0.9569	0	103	70	130				
Toluene	0.99	0.048	0.9569	0	104	70	130				
Ethylbenzene	1.0	0.048	0.9569	0	106	70	130				
Xylenes, Total	3.1	0.096	2.871	0	106	70	130				
Surr: 4-Bromofluorobenzene	0.96		0.9569		100	39.1	146				

Sample ID: 2312374-008amsd	SampT	SampType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-12 2'	Batch	n ID: 79 3	RunNo: 101852							
Prep Date: 12/12/2023	Analysis D	Date: 12	/14/2023	23 SeqNo: 3755328 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9579	0	99.2	70	130	3.60	20	
Toluene	0.96	0.048	0.9579	0	99.9	70	130	3.79	20	
Ethylbenzene	0.98	0.048	0.9579	0	102	70	130	3.33	20	
Xylenes, Total	3.0	0.096	2.874	0	103	70	130	2.66	20	
Surr: 4-Bromofluorobenzene	0.95		0.9579		98.8	39.1	146	0	0	

Sample ID: mb-79332	SampT	уре: МЕ	BLK	Tes	tCode: EF	les				
Client ID: PBS	Batcl	n ID: 79 3	79332 RunNo: 10							
Prep Date: 12/12/2023	Analysis D	Date: 12	/14/2023	5	SeqNo: 37	757815	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	39.1	146			

Sample ID: Ics-79332	SampT	Гуре: LC	De: LCS TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	h ID: 79 3	332	F	RunNo: 10	01852				
Prep Date: 12/12/2023	Analysis D	Date: 12	/14/2023	9	SeqNo: 37	757877	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	104	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	39.1	146			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Sample Log-In Check List

Released to Imaging: 6/27/2024 7:51:27 AM

				Website: www.h	anenvii	Unine	mar.com		
Client Name:	Vertex Res	ources	Worl	Order Numbe	r: 231 :	2374		Rcpti	No: 1
Received By:	Tracy Cas	sarrubias	12/7/29)23 8:05:00 AN	1				
Completed By:	Tracy Cas	sarrubias	12/7/20)23 8:42:30 AN	ī				
Reviewed By:	on 12/5	1123							
Chain of Cust	tody								
1. Is Chain of Cu	ustody comp	lete?			Yes		No 🗹	Not Present]
2. How was the	sample deliv	ered?			Cou	<u>rier</u>			
Log In 3. Was an attem	pt made to o	cool the samp	oles?		Yes	✓	No 🗌	na 🗆]
4. Were all samp	les received	l at a tempera	ature of >0° C	to 6.0°C	Yes	Y	No 🗌	NA [)
5. Sample(s) in p	oroper conta	iner(s)?			Yes	V	No 🗌		
6. Sufficient samp	ple volume f	or indicated to	est(s)?		Yes	V	No 🗌		
7. Are samples (e	except VOA	and ONG) pr	operly preserv	ed?	Yes	V	No 🗌		
8. Was preservat	ive added to	bottles?			Yes		No 🔽	NA 🗆	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	VOA?	Yes		No 🗆	NA ⊻	
10. Were any sam	nple containe	ers received b	oroken?		Yes		No 🗹	# of preserved bottles checked	
 Does paperwo (Note discrepa 			·)		Yes	V	No 🗌	for pH:	or >12 unless noted)
12. Are matrices c	orrectly iden	tified on Chai	n of Custody?		Yes	V	No 🗌	Adjusted?	
13. Is it clear what		•	l?		Yes	V	No 🗌		0.
14. Were all holdin (If no, notify cu					Yes	✓	No 🗌	Checked by:	112-7-2
Special Handli									
15. Was client not	tified of all d	iscrepancies	with this order	?	Yes		No 🗌	NA]
Person I	Notified:	Γ		Date:	-			,	
By Who	m:			Via: [] еМа	ail 🗌	Phone Fa	x	
Regardii	ng:								
Client In	structions:	Mailing addre	ess phone nur	nber and Email	/Fax a	re mis	ssing on COC-T	MC 12/7/23	
16. Additional ren Client di		ish chain of c	custody						
17. <u>Cooler Inforr</u>			-						
Cooler No	Temp °C	Condition	Seal Intact	Seal No S	Seal Da	ate	Signed By	T. Committee	
	2.6		Yes	Yogi					

Chain-of-Custody Record					Turn-Around Time:					work	Н	A	LL	E	V	IR	OI	NM	EN	ITA	L	
Client: Vertex (Deron)					Standard 및 Rush 5 0000				ANALYSIS LABORATORY													
					Project Name:				www.hallenvironmental.com													
Mailing Address: on file					Aldobia 25 Fed 6				4901 Hawkins NE - Albuquerque, NM 87109													
V:					Project #:				Te	l. 50	5-34	5-39	75	F	ax !	505-	345-	4107	oder pr			
Phone #:					23E-04614								A	naly	sis l	Req	uest					
email or Fax#:					Project Manager:				30)	,				SO4			ent)					
QA/QC Package:					Kent Stallings				KPH-8015D(GRO / DRO / MRO)	PCB's		8270SIMS		PO ₄ ,		Ĭ	(Present/Absent)	-				
☐ Standard ☐ Level 4 (Full Validation)									없	32 F		270		NO ₂ , F			sent			9.70		
Accreditation: Az Compliance					Sampler: Zach Fnc chell On Ice: Yes No 100				0/1	8081 Pesticides/8082	EDB (Method 504.1)	or 82		- 1		(A)	(Pre		001			
□ NELAC □ Other					# of Coolers: Manager No				GR	ige	2d 5		stals	Š		7-	E				1 1	
□ EDD (Type)					Cooler Temp(including CF): 8 27-0.1:26 (°C)				15D	stic	ett	83	₩ X	, i	8 O	emi	읥	-			1 1	
	-							XX MTBE /	Ž	- B	Σ	s b	\$		5	s) (<u> </u>	5.7				
	l	N. 4 1	Cample Name		Container Type and #	Preservative Type	HEAL No.	BIEX	团	3081	EDB	PAHs by 8310	RCRA 8 Metals	CL)F, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform	ett av Ita				
			Sample Name	^′				Ž	V					V		BEMIT	1(1)	/ (Br/c) (E)	ST TE			
12-5-23	9:00	5011	BH53-0P	0	1 402.jar	ice	001	1		_	\dashv		-	$\frac{1}{1}$			\vdash		\dashv	_	+-	_
	910		BH23-06	2'	Sales a		007	1	\vdash		-		9917		- 0					-	-	
	920	St 917	RH23-09	0 -			003	11	1	_				+		(min)	HOTEL I		de	1111	\vdash	
	930	75	B H23 - 09	2		144	004	1	Ц						10001 10001					100	+-	
	9 40		B1+23-11	0	h h	9031 L 91 1546 1736 L 9631 L 168	005	\perp	\sqcup		100	1 1/1	1947	\perp	(=) let lie			ic iii li	per la constitución de la consti	111	1-1	
	950		BH 23- 11	2			006	$\bot \bot$	\sqcup			h-710.	karyn		fa _t udi	P-0	24.24	djes		201	-	
	600		BH23-12	0			007	\sqcup						Ш			100		11111111	11.7	\dashv	_
	10 10		BH23-12	2	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	008	$\perp \downarrow$	Ш						11500						-	_
	10 20	1	R H23 - 13	0′			009	$\perp \downarrow$	\coprod	<u> </u>					-116	1111	Derti in			17.19	+	_
	1030		BH23- 93	2'			010	$\bot \bot$	1		1350			1			10.176				-	-
	10 40		B H23- 14	0'	Harris II		011	11	H	/_		10 10		1		1000	1900	A [5]	or 11 1 100		-	_
V	1050	V	BH23 14	2'	V	V	012	A	M			- New		M		Amilia	_				لسلي	
Date: Time: Relinquished by:				Received by: Via: Date Time				Remarks: Direct bill to Deron CC K Stallings Gavertex, cq														
				1) humaning 12/0/23 930					Ì		1/	1774	1	1/2		_ /	<u></u>	011	0 V	10		
Date: Time: Relinquished by:				Received by: Via: COLIM-PC Date Time					(-6	K	- 5	79	11)	ng	5 (acv	C17	てどり	64		
19/42 1900 Cumus				12/7/23 8:05								The second							<u> </u>	_	_	

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Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: Vertex (Deron)	Project Name: Aldabra 25 Fed 6	ANALYSIS LABORATORY
THE STATE OF THE S	Ala I OST //a	www.hallenvironmental.com
Mailing Address: on file	Aldabra 23 Fed 0	4901 Hawkins NE - Albuquerque, NM 87109
	IProject #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	23E-04614	Analysis Request
email or Fax#:	Project Manager:	SO ₄ (20)
QA/QC Package:	Kent Stallings	0 / MRO) PCB's DSIMS IN/Absent
☐ Standard ☐ Level 4 (Full Validation)		IMB's (802 / DRO / MF 082 PCB's .1) NO ₂ , PO ₄ , 9
Accreditation: Az Compliance	Sampler: Zach Englebell On Ice: Yes Do No Una	
□ NELAC □ Other		(GRC cides/ NO3, NO3, NO3, NO3, NO3, NO3, NO3, NO3,
□ EDD (Type)	# of Coolers: 1 Cooler Temp(including CF): 2 7 - 0.1 = 2.6 (°C	BTEX) MTBE / T TPH 8015D(GRO / B081 Pesticides/80 EDB (Method 504. PAHs by 8310 or 8 ENF, Br, NO ₃ , N 8260 (VOA) Total Coliform (Pr
	Cooler Temp(including CF). 7 4 7 6 1 - 2 0 1	Solifer Colifer Colife
	Container Preservative HEAL No.	RTEX) MTE ROB1 Pestici 8081 Pestici EDB (Metho PAHS by 83 RCRA 8 Me CA)F, Br, N 8270 (Semi- Total Colifor
Date Time Matrix Sample Name	Type and # Type 7312374	
12-5-23/100 soil BH23-15 0	1402, ger ice 013	
12-5-23 (1 10) RH23 - 15 2	014	
1 1120 BH23-16 0	015	
1130 BH27-16 2	016	
1140 / BH23-11 4	017	
	018	
1150 V 8423-11 5	V 0.0	
		
	The state of the s	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks: Direct bill to Devon
	12/1/25 930	Remarks: Direct bill to Devon LC Kstallings Gvertex. Ca
Date: Time: Relinquished by:	Received by: Via! Counter Date Time	5 20 1333
12/6/23 1900 CUCHILING	121+123	When the desired report of the application from the conditional report
Released to Imaging: 0/27/2024 7:51:27 AM	ubcontracted to other accredited laboratories. This serves as notice o	of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 2 0



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 24, 2024

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Aldabra 25 Federal 006H OrderNo.: 2312527

Dear Kent Stallings:

Eurofins Environment Testing South Central, LLC received 3 sample(s) on 12/8/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2312527**Date Reported: **1/24/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-11 6 feet

 Project:
 Aldabra 25 Federal 006H
 Collection Date: 12/6/2023 9:00:00 AM

 Lab ID:
 2312527-001
 Matrix: SOIL
 Received Date: 12/8/2023 8:00:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 3500 94 mg/Kg 10 12/15/2023 2:23:44 PM Motor Oil Range Organics (MRO) 2900 470 mg/Kg 10 12/15/2023 2:23:44 PM Surr: DNOP 69-147 %Rec 10 12/15/2023 2:23:44 PM 0 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 12/15/2023 2:15:00 PM 4.8 mg/Kg 1 Surr: BFB 97.7 15-244 %Rec 1 12/15/2023 2:15:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 12/15/2023 2:15:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 12/15/2023 2:15:00 PM Ethylbenzene 0.048 ND mg/Kg 1 12/15/2023 2:15:00 PM Xylenes, Total ND 0.096 mg/Kg 1 12/15/2023 2:15:00 PM Surr: 4-Bromofluorobenzene 98.1 39.1-146 %Rec 1 12/15/2023 2:15:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 12/15/2023 6:09:15 PM 60 mg/Kg 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

CLIENT: Devon Energy

Analytical Report

Lab Order **2312527**Date Reported: **1/24/2024**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-11 8 feet

 Project:
 Aldabra 25 Federal 006H
 Collection Date: 12/6/2023 9:10:00 AM

 Lab ID:
 2312527-002
 Matrix: SOIL
 Received Date: 12/8/2023 8:00:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 2200 97 mg/Kg 10 12/15/2023 2:34:31 PM Motor Oil Range Organics (MRO) 1600 490 mg/Kg 10 12/15/2023 2:34:31 PM Surr: DNOP 69-147 %Rec 10 12/15/2023 2:34:31 PM 0 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 12/15/2023 2:37:00 PM 4.8 mg/Kg 1 Surr: BFB 97.0 15-244 %Rec 1 12/15/2023 2:37:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 12/15/2023 2:37:00 PM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 12/15/2023 2:37:00 PM Ethylbenzene 0.048 ND mg/Kg 1 12/15/2023 2:37:00 PM Xylenes, Total ND 0.097 mg/Kg 1 12/15/2023 2:37:00 PM Surr: 4-Bromofluorobenzene 95.6 39.1-146 %Rec 1 12/15/2023 2:37:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 12/15/2023 6:24:24 PM 97 60 mg/Kg 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

CLIENT: Devon Energy

Analytical Report

Lab Order **2312527**Date Reported: **1/24/2024**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-11 9 feet

 Project:
 Aldabra 25 Federal 006H
 Collection Date: 12/6/2023 9:20:00 AM

 Lab ID:
 2312527-003
 Matrix: SOIL
 Received Date: 12/8/2023 8:00:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 2800 92 mg/Kg 10 12/15/2023 2:45:18 PM Motor Oil Range Organics (MRO) 1800 460 mg/Kg 10 12/15/2023 2:45:18 PM Surr: DNOP 69-147 %Rec 10 12/15/2023 2:45:18 PM 0 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 12/15/2023 2:59:00 PM 4.9 mg/Kg 1 Surr: BFB 99.7 15-244 %Rec 1 12/15/2023 2:59:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 12/15/2023 2:59:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 12/15/2023 2:59:00 PM Ethylbenzene 0.049 ND mg/Kg 1 12/15/2023 2:59:00 PM Xylenes, Total ND 0.099 mg/Kg 1 12/15/2023 2:59:00 PM Surr: 4-Bromofluorobenzene 97.5 39.1-146 %Rec 1 12/15/2023 2:59:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 12/15/2023 6:39:33 PM 140 60 mg/Kg 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312527

24-Jan-24

Client: Devon Energy

Project: Aldabra 25 Federal 006H

Sample ID: MB-79418 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79418 RunNo: 101893

Prep Date: 12/15/2023 Analysis Date: 12/15/2023 SeqNo: 3757679 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-79418 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79418 RunNo: 101893

1.5

15

Analysis Date: 12/15/2023 Prep Date: 12/15/2023 SeqNo: 3757680 Units: mg/Kg

15.00

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** HighLimit Qual Analyte 0

96.8

90

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312527**

24-Jan-24

Client: Devon Energy

Project: Aldabra 25 Federal 006H

Sample ID: LCS-79405 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 79405 RunNo: 101872

Prep Date: 12/15/2023 Analysis Date: 12/15/2023 SeqNo: 3756381 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 50.00 93.9 61.9 130 Surr: DNOP 5.0 5.000 101 69 147

Sample ID: MB-79405 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **79405** RunNo: **101872**

Prep Date: 12/15/2023 Analysis Date: 12/15/2023 SeqNo: 3756384 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 119 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312527 24-Jan-24

Client: Devon Energy

Project: Aldabra 25 Federal 006H

Sample ID: Ics-79361 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 79361 RunNo: 101891

Prep Date: 12/13/2023 Analysis Date: 12/15/2023 SeqNo: 3757528 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 90.5 70 130

Surr: BFB 2100 1000 211 15 244

Sample ID: mb-79361 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **79361** RunNo: **101891**

Prep Date: 12/13/2023 Analysis Date: 12/15/2023 SeqNo: 3757529 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 980 1000 98.1 15 244

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312527 24-Jan-24

Client: Devon Energy

Project: Aldabra 25 Federal 006H

Sample ID: Ics-79361	D: Ics-79361 SampType: LCS					TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	h ID: 79 3	9361 RunNo: 101891										
Prep Date: 12/13/2023	Analysis D	Date: 12	2/15/2023	S	SeqNo: 3	757581	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.94	0.025	1.000	0	94.0	70	130						
Toluene	0.94	0.050	1.000	0	94.4	70	130						
Ethylbenzene	0.96	0.050	1.000	0	96.5	70	130						
Xylenes, Total	2.9	0.10	3.000	0	97.1	70	130						
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146						

Sample ID: mb-79361	Sample ID: mb-79361 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: 79 :	361	F	RunNo: 1	01891						
Prep Date: 12/13/2023	Analysis Date: 12/15/2023			S	SeqNo: 3757582 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 7

Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

Website: www.hallenvironmental.com

Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 6/27/2024 7:51:27 AM

Client Name:	Devon Energ	3y	Work	Order Numb	per: 231252	7		RcptNo:	1
Received By:	Cheyenne (Cason	12/8/202	3 8:00:00 <i>A</i>	AM.		Cheal		
Completed By	: Cheyenne	Cason	12/8/202	3 10:00:11	AM		Chul		
Reviewed By:	\$12-8	- 23							
01 -1 -10	0								
Chain of Cu		4.0			Yes 🛂	-	No 🗌	Not Present	
	Custody comple						110	11011 1000111	
2. How was th	ne sample delive	red?			Courier				
Log In					_	_			
3. Was an atte	empt made to co	ool the sampl	es?		Yes 💆]	No 🗌	NA 🗆	
					_	,	No 🗌	🗆	
4. Were all sa	mples received	at a temperat	ture of >0°Ct	o 6.0°C	Yes 🛂	']	NO L	na 🗌	
5. Sample(s)	in proper contair	ner(s)?			Yes 🛂	<u>'</u>	No 🗌		
	•	(-) .							
6. Sufficient sa	ample volume fo	r indicated te	est(s)?		Yes 🗸]	No 🗌		
7. Are sample	s (except VOA a	and ONG) pro	perly preserve	d?	Yes 🗸]	No 🗌	_	
8. Was preser	vative added to	bottles?			Yes 🗆]	No 🗹	na 🗆	
0.5			4405 . 403		V [1	No 🗌	NA 🗹	
	t least 1 vial with			OA?	Yes ∟ Yes □]	No ☑		
10. Were any s	sample containe	rs received b	roken?		Yes └	_	140 🖭	# of preserved	
11 Does nane	rwork match bot	tle labels?			Yes 🗹]	No 🗆	bottles checked for pH:	
	epancies on cha)						r >12 unless noted)
12. Are matrice	es correctly ident	ified on Chai	n of Custody?		Yes 🗹]	No 🗌	Adjusted?	/
13. Is it clear w	hat analyses we	re requested	?		Yes 🗹		No L	01/11/11/11	10/01
	olding times able				Yes 🛂	1	No ∐	Checked by:	7412181
(ir no, notily	y customer for a	uthorization.)							
Special Han	idling (if app	licable)					_		
15. Was client	t notified of all di	screpancies v	with this order	>	Yes]	No 🗆	NA 🗹	
Pers	on Notified:		SHIPLE THE TAXABLE PARTY	Date	Г	-	and the second second second		
By V	Vhom:		and war on the property	Via:	eMail		Phone Fax	☐ in Person	
Reg	arding:								
Clier	nt Instructions:								<u>. d</u>
16. Additiona	I remarks:								
17. Cooler In	nformation								
Cooler III		Condition	Seal Intact	Seal No	Seal Date	•	Signed By		
1	2.7	Good	Not Present						
2	1.2	Good	Not Present	Morty					

Ch	ain-	of-Cu	stody Record	Turn-Around	Time:			HALL ENVIRONMENTA ANALYSIS LABORATOR				AL									
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□ EDD (# of Coolers:		-0115			9)	isi	po l	331(Z	7	ni-V	틸	19.11				1
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				Container	Preservative	HE	AL No.		% #	808)B(욁	F.	09	20	ital		-329			
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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/22/2024 11:53:06 AM

JOB DESCRIPTION

Aldabra 25 Federal #006

JOB NUMBER

885-2899-1

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

Generated 4/22/2024 11:53:06 AM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 3

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9

10

Client: Vertex
Laboratory Job ID: 885-2899-1
Project/Site: Aldabra 25 Federal #006

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Definitions/Glossary

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Qualifiers

HPLC/IC

Qualifier Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Vertex Job ID: 885-2899-1

Project: Aldabra 25 Federal #006

Job ID: 885-2899-1 Eurofins Albuquerque

Job Narrative 885-2899-1

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

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: Due to the high concentration of Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 880-78732 and analytical batch 880-78778 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

Eurofins Albuquerque

Client Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-05 0' Lab Sample ID: 885-2899-1

Date Collected: 04/10/24 12:25 Matrix: Solid

Date Received: 04/16/24 07:55

Chloride

Released to Imaging: 6/27/2024 7:51:27 AM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/16/24 15:31	04/17/24 17:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 244			04/16/24 15:31	04/17/24 17:22	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 17:22	1
Ethylbenzene	ND		0.047	mg/Kg		04/16/24 15:31	04/17/24 17:22	1
Toluene	ND		0.047	mg/Kg		04/16/24 15:31	04/17/24 17:22	1
Xylenes, Total	ND		0.094	mg/Kg		04/16/24 15:31	04/17/24 17:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/16/24 15:31	04/17/24 17:22	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		9.0	mg/Kg		04/17/24 11:31	04/17/24 20:07	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 11:31	04/17/24 20:07	1
0 0 1								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate Di-n-octyl phthalate (Surr)	%Recovery	Qualifier	62 - 134			04/17/24 11:31	04/17/24 20:07	DII Fac
	103		62 - 134					DII Fac

5.0

mg/Kg

1000

04/19/24 22:41

-

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Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Lab Sample ID: 885-2899-2 Client Sample ID: BH24-05 2;

Date Collected: 04/09/24 07:45 **Matrix: Solid**

Method: SW846 8015D - Gaso	_	_	. , , ,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/16/24 15:31	04/17/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/16/24 15:31	04/17/24 17:45	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 15:31	04/17/24 17:45	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 15:31	04/17/24 17:45	1
Toluene	ND		0.050	mg/Kg		04/16/24 15:31	04/17/24 17:45	1
Xylenes, Total	ND		0.10	mg/Kg		04/16/24 15:31	04/17/24 17:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		39 - 146			04/16/24 15:31	04/17/24 17:45	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 11:31	04/17/24 20:20	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 11:31	04/17/24 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			04/17/24 11:31	04/17/24 20:20	1
Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		5.0	mg/Kg			04/19/24 22:55	

Job ID: 885-2899-1

Client: Vertex Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-05 9'

Lab Sample ID: 885-2899-3

Matrix: Solid

Date Collected: 04/11/24 12:00 Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 15:31	04/17/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			04/16/24 15:31	04/17/24 18:09	1
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 18:09	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 18:09	1
Toluene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 18:09	1
Xylenes, Total	ND		0.095	mg/Kg		04/16/24 15:31	04/17/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146			04/16/24 15:31	04/17/24 18:09	1
- Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
					_	Prepared	Analyzed	D:: F
	Result	Qualifier	RL	Unit	D	riepaieu	7a.y = 0 a	Dil Fac
	Result ND	Qualifier	9.0	<mark>Unit</mark> mg/Kg	_ D	04/17/24 11:31	04/17/24 20:33	1 DII Fac
Analyte		Qualifier			D		04/17/24 20:33	1 1
Analyte Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg	Б	04/17/24 11:31	04/17/24 20:33	1
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	ND ND		9.0 45	mg/Kg	<u>D</u>	04/17/24 11:31 04/17/24 11:31	04/17/24 20:33 04/17/24 20:33	1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate	ND ND %Recovery 118	Qualifier	9.0 45 Limits 62 - 134	mg/Kg		04/17/24 11:31 04/17/24 11:31 Prepared	04/17/24 20:33 04/17/24 20:33 <i>Analyzed</i>	1 1 Dil Fac
Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr)	ND ND **Recovery 118	Qualifier	9.0 45 Limits 62 - 134	mg/Kg	<u>D</u>	04/17/24 11:31 04/17/24 11:31 Prepared	04/17/24 20:33 04/17/24 20:33 <i>Analyzed</i>	1 1 Dil Fac

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Analyte

Chloride

Released to Imaging: 6/27/2024 7:51:27 AM

Client Sample ID: BH24-17 0' Lab Sample ID: 885-2899-4

Date Collected: 04/10/24 08:30 **Matrix: Solid**

Date Received: 04/16/24 07:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/16/24 15:31	04/17/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			04/16/24 15:31	04/17/24 18:32	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 18:32	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 18:32	1
Toluene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 18:32	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 15:31	04/17/24 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		39 - 146			04/16/24 15:31	04/17/24 18:32	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 11:31	04/17/24 20:46	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		04/17/24 11:31	04/17/24 20:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			04/17/24 11:31	04/17/24 20:46	1

RL

5.0

Unit

mg/Kg

Result Qualifier

360

Analyzed

04/19/24 09:05

Prepared

Dil Fac

Client Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-17 2'

Lab Sample ID: 885-2899-5

Matrix: Solid

Prepared

Date Collected: 04/10/24 08:35 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		4.8	mg/Kg		04/16/24 15:31	04/17/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			04/16/24 15:31	04/17/24 18:56	1
- Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 18:56	1
Ethylbenzene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 18:56	1
Toluene	ND		0.048	mg/Kg		04/16/24 15:31	04/17/24 18:56	1
Xylenes, Total	ND		0.096	mg/Kg		04/16/24 15:31	04/17/24 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		39 - 146			04/16/24 15:31	04/17/24 18:56	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		9.3	mg/Kg		04/17/24 11:31	04/17/24 20:59	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 11:31	04/17/24 20:59	1

Di-n-octyl phthalate (Surr)	87	62 - 134			04/17/24 11:31	04/17/24 20:59	1
Method: EPA 300.0 - Anio	ns, Ion Chromatography	- Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410	5.0	mg/Kg			04/19/24 09:19	1

Limits

%Recovery Qualifier

Eurofins Albuquerque

Surrogate

Dil Fac

Analyzed

Client Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-18 0' Lab Sample ID: 885-2899-6

Date Collected: 04/10/24 14:20 Matrix: Solid

Method: SW846 8015D - Gaso Analyte	_	Organics (Qualifier	(GRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 15:31	04/17/24 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			04/16/24 15:31	04/17/24 19:19	
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 19:19	
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 15:31	04/17/24 19:19	
Toluene	ND		0.049	mg/Kg		04/16/24 15:31	04/17/24 19:19	
Xylenes, Total	ND		0.097	mg/Kg		04/16/24 15:31	04/17/24 19:19	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	83		39 - 146			04/16/24 15:31	04/17/24 19:19	
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		04/17/24 11:31	04/17/24 21:12	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/17/24 11:31	04/17/24 21:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	81		62 - 134			04/17/24 11:31	04/17/24 21:12	
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	940		5.0	mg/Kg			04/19/24 09:24	

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-18 2' Lab Sample ID: 885-2899-7

Date Collected: 04/10/24 14:25

Matrix: Solid

Method: SW846 8015D - Gaso	_	_			_	_		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/16/24 15:31	04/17/24 19:42	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		15 - 244			04/16/24 15:31	04/17/24 19:42	
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/16/24 15:31	04/17/24 19:42	•
Ethylbenzene	ND		0.049	mg/Kg		04/16/24 15:31	04/17/24 19:42	1
Toluene	ND		0.049	mg/Kg		04/16/24 15:31	04/17/24 19:42	
Xylenes, Total	ND		0.098	mg/Kg		04/16/24 15:31	04/17/24 19:42	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	84		39 - 146			04/16/24 15:31	04/17/24 19:42	
Method: SW846 8015D - Diese	el Range Or	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		04/17/24 11:31	04/17/24 21:25	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		04/17/24 11:31	04/17/24 21:25	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	84		62 - 134			04/17/24 11:31	04/17/24 21:25	
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
Method. EFA 300.0 - Allions, i	• • •a							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-20 0' Lab Sample ID: 885-2899-8

Matrix: Solid

Date Collected: 04/11/24 14:00 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	04/17/24 23:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 244			04/16/24 17:07	04/17/24 23:22	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	04/17/24 23:22	1
Ethylbenzene	ND		0.050	mg/Kg		04/16/24 17:07	04/17/24 23:22	1
Toluene	ND		0.050	mg/Kg		04/16/24 17:07	04/17/24 23:22	1
Xylenes, Total	ND		0.099	mg/Kg		04/16/24 17:07	04/17/24 23:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		39 - 146			04/16/24 17:07	04/17/24 23:22	1
Method: SW846 8015D - Diese	el Range Or	ganics (DF	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20		9.3	mg/Kg		04/17/24 09:56	04/18/24 21:55	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		04/17/24 09:56	04/18/24 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			04/17/24 09:56	04/18/24 21:55	1
-								
Method: EPA 300.0 - Anions, I	on Chroma	tography -	Soluble					
		tography - Qualifier	Soluble RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-20 2'

Lab Sample ID: 885-2899-9

Date Collected: 04/11/24 14:15

Matrix: Solid

Date Received: 04/16/24 07:55

Chloride

	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		5.0	mg/Kg		04/16/24 17:07	04/18/24 00:27	
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
100		15 - 244			04/16/24 17:07	04/18/24 00:27	1
ile Organic	Compound	ds (GC)					
_	•	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		0.025	mg/Kg		04/16/24 17:07	04/18/24 00:27	1
ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 00:27	1
ND		0.050	mg/Kg		04/16/24 17:07	04/18/24 00:27	1
ND		0.099	mg/Kg		04/16/24 17:07	04/18/24 00:27	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
88		39 - 146			04/16/24 17:07	04/18/24 00:27	
el Range Or	ganics (DF	RO) (GC)					
	•	RL	Unit	D	Prepared	Analyzed	Dil Fac
ND		8.4	mg/Kg		04/17/24 09:56	04/18/24 22:07	1
ND		42	mg/Kg		04/17/24 09:56	04/18/24 22:07	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
101		62 - 134			04/17/24 09:56	04/18/24 22:07	1
	##Recovery 100 Ile Organic Result ND ND ND ND **Recovery 88 Il Range Organic Result ND ND **Recovery ND ND ND **Recovery ND ND **Recovery	Recovery Qualifier 100	%Recovery Qualifier Limits 100 15 - 244 le Organic Compounds (GC) Result Qualifier RL ND 0.025 ND 0.050 ND 0.099 %Recovery Qualifier Limits 88 39 - 146 Il Range Organics (DRO) (GC) Result Qualifier RL ND 8.4 ND 42 %Recovery Qualifier Limits	%Recovery Qualifier Limits 100 15 - 244 le Organic Compounds (GC) Result Qualifier RL Unit ND 0.025 mg/Kg Mg/Kg ND mg/Kg ND 0.050 mg/Kg Mg/Kg Mg/Kg Mg/Kg ND 0.099 mg/Kg Mg/Kg Mg/Kg Mg/Kg Mg/Kg Il Range Organics (DRO) (GC) Result Qualifier RL Unit mg/Kg ND 8.4 mg/Kg mg/Kg mg/Kg ND 42 mg/Kg %Recovery Qualifier Limits Limits	%Recovery Qualifier Limits 100 15 - 244 le Organic Compounds (GC) Unit D Result Qualifier RL Unit D ND 0.025 mg/Kg mg/Kg ND 0.050 mg/Kg ND 0.099 mg/Kg %Recovery Qualifier Limits ND 88 Unit D Result Qualifier RL Unit D ND 8.4 mg/Kg ND 42 mg/Kg %Recovery Qualifier Limits	%Recovery Qualifier Limits Prepared 100 15 - 244 04/16/24 17:07 le Organic Compounds (GC) Result Qualifier RL Unit D Prepared ND 0.025 mg/Kg 04/16/24 17:07 ND 0.050 mg/Kg 04/16/24 17:07 ND 0.099 mg/Kg 04/16/24 17:07 %Recovery Qualifier Limits 88 39 - 146 Prepared 04/16/24 17:07 Il Range Organics (DRO) (GC) Result Qualifier RL mg/Kg Unit mg/Kg D Prepared 04/17/24 09:56 ND 8.4 mg/Kg 04/17/24 09:56 ND 42 mg/Kg 04/17/24 09:56 %Recovery Qualifier Limits Prepared	%Recovery 100 Limits 15 - 244 Prepared 04/16/24 17:07 Analyzed 04/18/24 00:27 Ile Organic Compounds (GC) Result Qualifier ND 0.025 What ND 0.025 What ND 0.025 Prepared 04/16/24 17:07 Analyzed 04/16/24 17:07 04/18/24 00:27 ND 0.050 Mg/Kg 04/16/24 17:07 04/18/24 00:27 04/16/24 17:07 04/18/24 00:27 ND 0.050 Mg/Kg 04/16/24 17:07 04/18/24 00:27 04/16/24 17:07 04/18/24 00:27 %Recovery Qualifier Limits 88 39 - 146 Prepared 04/16/24 17:07 04/18/24 00:27 Il Range Organics (DRO) (GC) Result Qualifier RL MD 8.4 Unit Mg/Kg Mg/Kg 04/17/24 09:56 Prepared 04/18/24 00:27 ND 8.4 Mg/Kg Mg/Kg 04/17/24 09:56 04/18/24 22:07 ND 42 Mg/Kg 04/17/24 09:56 04/18/24 22:07 %Recovery Qualifier Limits Prepared Analyzed

5.0

120

mg/Kg

04/19/24 09:48

a

3

Λ

5

9

10

Job ID: 885-2899-1

Prep Batch: 3391

Project/Site: Aldabra 25 Federal #006

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

Lab Sample ID: MB 885-3391/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 3497

MB MB Result Qualifier RL Unit D Analyzed Dil Fac Analyte Prepared 5.0 04/16/24 15:31 04/17/24 11:27 Gasoline Range Organics [C6 - C10] ND mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 15 - 244 04/16/24 15:31 04/17/24 11:27 4-Bromofluorobenzene (Surr) 111

Lab Sample ID: LCS 885-3391/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Client: Vertex

Prep Type: Total/NA **Analysis Batch: 3497** Prep Batch: 3391 LCS LCS

%Rec

Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics [C6 -25.0 27.4 mg/Kg 110 70 - 130

C10]

LCS LCS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 229 15 - 244

Lab Sample ID: MB 885-3420/1-A **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 3503 Prep Batch: 3420

Prep Type: Total/NA

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 04/16/24 17:07 04/17/24 23:00 Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg

мв мв

MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 96 15 - 244 04/16/24 17:07 04/17/24 23:00

Lab Sample ID: LCS 885-3420/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 3503 Prep Batch: 3420 LCS LCS %Rec Spike

Added Result Qualifier Unit %Rec Limits Gasoline Range Organics [C6 -25.0 25.9 mg/Kg 104 70 - 130

C10]

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 222 15 - 244

Lab Sample ID: 885-2899-8 MS Client Sample ID: BH24-20 0'

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 3503 Prep Batch: 3420

MS MS %Rec Sample Sample Spike Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit ND 24.6 27.7 113 70 - 130 Gasoline Range Organics [C6 mg/Kg

C10]

MS MS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 236 15 - 244

Eurofins Albuquerque

QC Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

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

Lab Sample ID: 885-2899-8 MSD Client Sample ID: BH24-20 0'

Matrix: Solid

Analysis Batch: 3503

Prep Type: Total/NA Prep Batch: 3420 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier Added Unit %Rec Limits RPD Limit Analyte Gasoline Range Organics [C6 -ND 24.6 27.0 mg/Kg 110 70 - 130 3 20

C10]

MSD MSD

%Recovery Surrogate Qualifier Limits 225 15 - 244 4-Bromofluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Analysis Batch: 3498

Lab Sample ID: MB 885-3391/1-A

MB MB

Client Sample ID: Method Blank **Prep Type: Total/NA** Prep Batch: 3391

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 0.025 Benzene ND mg/Kg 04/16/24 15:31 04/17/24 11:27 0.050 mg/Kg 04/16/24 15:31 04/17/24 11:27 Ethylbenzene ND Toluene ND 0.050 mg/Kg 04/16/24 15:31 04/17/24 11:27 Xylenes, Total ND 0.10 mg/Kg 04/16/24 15:31 04/17/24 11:27

MB MB

Surrogate Qualifier Limits Dil Fac %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 39 - 146 04/16/24 15:31 04/17/24 11:27 89

Lab Sample ID: LCS 885-3391/3-A

Released to Imaging: 6/27/2024 7:51:27 AM

Matrix: Solid

Analysis Batch: 3498

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 3391

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1.00 82 Benzene 0.825 mg/Kg 70 - 130 0.857 Ethylbenzene 1.00 mg/Kg 86 70 - 130 m,p-Xylene 2.00 1.74 mg/Kg 87 70 - 130 o-Xylene 1.00 0.859 mg/Kg 86 70 - 130 Toluene 1.00 0.840 mg/Kg 84 70 - 130 Xylenes, Total 3.00 87 2.60 mg/Kg 70 - 130

LCS LCS

%Recovery Qualifier I imits Surrogate 39 - 146 4-Bromofluorobenzene (Surr) 92

> Client Sample ID: Method Blank Prep Type: Total/NA

> > Prep Batch: 3420

Qualifier Dil Fac Analyte Result RL Unit D Prepared Analyzed Benzene ND 0.025 mg/Kg 04/16/24 17:07 04/17/24 23:00 0.050 Ethylbenzene ND mg/Kg 04/16/24 17:07 04/17/24 23:00 mg/Kg Toluene ND 0.050 04/16/24 17:07 04/17/24 23:00 Xylenes, Total ND 0.10 mg/Kg 04/16/24 17:07 04/17/24 23:00

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 4-Bromofluorobenzene (Surr) 86 39 - 146 04/16/24 17:07 04/17/24 23:00

Eurofins Albuquerque

Lab Sample ID: MB 885-3420/1-A **Matrix: Solid Analysis Batch: 3505** MB MB Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-3420/3-A

Matrix: Solid

Analysis Batch: 3505

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3420

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	1.00	0.969		mg/Kg		97	70 - 130	
Ethylbenzene	1.00	0.972		mg/Kg		97	70 - 130	
m,p-Xylene	2.00	1.95		mg/Kg		97	70 - 130	
o-Xylene	1.00	0.972		mg/Kg		97	70 - 130	
Toluene	1.00	0.970		mg/Kg		97	70 - 130	
Xylenes, Total	3.00	2.92		mg/Kg		97	70 - 130	
100 100								

LCS LCS

Surrogate %Recovery Qualifier Limits 39 - 146 4-Bromofluorobenzene (Surr) 88

Lab Sample ID: 885-2899-9 MS Client Sample ID: BH24-20 2'

Matrix: Solid

Prep Type: Total/NA Prep Batch: 3420 **Analysis Batch: 3505**

	Sample Sample	Spike	MS	MS				%Rec	
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND	0.985	0.983		mg/Kg	_	100	70 - 130	
Ethylbenzene	ND	0.985	0.993		mg/Kg		101	70 - 130	
m,p-Xylene	ND	1.97	1.99		mg/Kg		101	70 - 130	
o-Xylene	ND	0.985	0.995		mg/Kg		101	70 - 130	
Toluene	ND	0.985	0.987		mg/Kg		100	70 - 130	
Xylenes, Total	ND	2.96	2.98		mg/Kg		101	70 - 130	

Spike

Added

0.989

0.989

1.98

0.989

0.989

MSD MSD

0.975

0.994

1.99

0.989

0.979

2.98

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MS MS

Sample Sample

ND

ND

ND

ND

ND

Result Qualifier

Surrogate %Recovery Qualifier Limits 39 - 146 4-Bromofluorobenzene (Surr) 88

Lab Sample ID: 885-2899-9 MSD

Matrix: Solid

Analyte

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Analysis Batch: 3505

Client Sample ID: BH24-20 2'

70 - 130

70 - 130

70 - 130

70 - 130

101

100

99

100

Prep Type: Total/NA Prep Batch: 3420

%Rec **RPD** Limits RPD Limit %Rec 99 70 - 130 20 100 70 - 130 n 20

Xylenes, Total ND 2.97 MSD MSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 39 - 146 88

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

Lab Sample ID: MB 885-3421/1-A

Matrix: Solid

Analysis Batch: 3573

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac Prepared Diesel Range Organics [C10-C28] $\overline{\mathsf{ND}}$ 10 04/17/24 09:56 04/18/24 20:42 mg/Kg

Eurofins Albuquerque

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 3421

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20

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Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

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

Lab Sample ID: MB 885-3421/1-A **Matrix: Solid**

Analysis Batch: 3573

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 04/17/24 09:56 04/18/24 20:42

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 109 62 - 134 04/17/24 09:56 04/18/24 20:42

Lab Sample ID: LCS 885-3421/2-A

Analysis Batch: 3573

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Prep Batch: 3421

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits **Diesel Range Organics** 50.0 51.8 mg/Kg 104 60 - 135

[C10-C28]

Client: Vertex

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 103 62 - 134

Lab Sample ID: MB 885-3441/1-A

Matrix: Solid

Analysis Batch: 3463

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

Unit

mg/Kg

Prep Batch: 3441

Prepared Analyzed

04/17/24 11:31 04/17/24 16:40

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3421

MB MB Result Qualifier

RL Diesel Range Organics [C10-C28] $\overline{\mathsf{ND}}$ 10 Motor Oil Range Organics [C28-C40] ND 50

mg/Kg 04/17/24 11:31 04/17/24 16:40 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 97 62 - 134 04/17/24 11:31 04/17/24 16:40

Lab Sample ID: LCS 885-3441/2-A

Matrix: Solid

Analysis Batch: 3463

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

Prep Batch: 3441

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 50.0 42.2 84 60 - 135 Diesel Range Organics mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits 62 - 134 Di-n-octyl phthalate (Surr) 102

Lab Sample ID: 885-2899-7 MS

Matrix: Solid

Analysis Batch: 3463

Client Sample ID: BH24-18 2'

Prep Type: Total/NA Prep Batch: 3441

%Rec

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Diesel Range Organics 47.0 88 ND 41.5 mg/Kg 44 - 136

[C10-C28]

MS MS

Surrogate %Recovery Qualifier I imits Di-n-octyl phthalate (Surr) 62 - 134 91

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QC Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

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

ND

Lab Sample ID: 885-2899-7 MSD Client Sample ID: BH24-18 2'

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 3463** Prep Batch: 3441 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit

38.4

mg/Kg

85

44 - 136

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH24-17 0'

Client Sample ID: BH24-17 0'

Client Sample ID: Method Blank

45.2

Diesel Range Organics [C10-C28]

MSD MSD

%Recovery Limits Surrogate Qualifier 62 - 134 Di-n-octyl phthalate (Surr) 90

Method: 300.0 - Anions, Ion Chromatography

Matrix: Solid

Analysis Batch: 78704

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 5.0 04/19/24 08:50 ND mg/Kg

Lab Sample ID: LCS 880-78599/2-A

Lab Sample ID: MB 880-78599/1-A

Matrix: Solid

Analysis Batch: 78704

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 250 248 90 - 110 Chloride mg/Kg 99

Lab Sample ID: LCSD 880-78599/3-A

Matrix: Solid

Analysis Batch: 78704

Spike LCSD LCSD %Rec **RPD** Added %Rec Result Qualifier Unit Limits RPD Analyte Limit Chloride 250 248 99 90 - 110 0 mq/Kq

Lab Sample ID: 885-2899-4 MS

Matrix: Solid

Analysis Batch: 78704

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 360 251 607 mg/Kg 90 - 110

Lab Sample ID: 885-2899-4 MSD

Matrix: Solid

Analysis Batch: 78704

Spike MSD MSD **RPD** Sample Sample %Rec Result Qualifier Analyte Result Qualifier Added Unit %Rec Limits RPD Limit Chloride 360 251 607 mg/Kg 99 90 - 110

Lab Sample ID: MB 880-78732/1-A

Matrix: Solid

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Analysis Batch: 78778

MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Chloride 5.0 mg/Kg 04/19/24 21:18 ND

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QC Sample Results

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-78732/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78778

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D Chloride 250 250 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-78732/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78778

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 249 90 - 110 mg/Kg 100 0

Lab Sample ID: 885-2899-1 MS Client Sample ID: BH24-05 0' **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 78778

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 1000 250 1240 4 83 90 - 110 mg/Kg

Lab Sample ID: 885-2899-1 MSD Client Sample ID: BH24-05 0' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 78778

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1000 250 1240 4 mg/Kg 84 90 - 110

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Client: Vertex

Project/Site: Aldabra 25 Federal #006

Job ID: 885-2899-1

GC VOA

Prep Batch: 3391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-1	BH24-05 0'	Total/NA	Solid	5030C	
885-2899-2	BH24-05 2;	Total/NA	Solid	5030C	
885-2899-3	BH24-05 9'	Total/NA	Solid	5030C	
885-2899-4	BH24-17 0'	Total/NA	Solid	5030C	
885-2899-5	BH24-17 2'	Total/NA	Solid	5030C	
885-2899-6	BH24-18 0'	Total/NA	Solid	5030C	
885-2899-7	BH24-18 2'	Total/NA	Solid	5030C	
MB 885-3391/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3391/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3391/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 3420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-8	BH24-20 0'	Total/NA	Solid	5030C	
885-2899-9	BH24-20 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	
885-2899-8 MS	BH24-20 0'	Total/NA	Solid	5030C	
885-2899-8 MSD	BH24-20 0'	Total/NA	Solid	5030C	
885-2899-9 MS	BH24-20 2'	Total/NA	Solid	5030C	
885-2899-9 MSD	BH24-20 2'	Total/NA	Solid	5030C	

Analysis Batch: 3497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-1	BH24-05 0'	Total/NA	Solid	8015D	3391
885-2899-2	BH24-05 2;	Total/NA	Solid	8015D	3391
885-2899-3	BH24-05 9'	Total/NA	Solid	8015D	3391
885-2899-4	BH24-17 0'	Total/NA	Solid	8015D	3391
885-2899-5	BH24-17 2'	Total/NA	Solid	8015D	3391
885-2899-6	BH24-18 0'	Total/NA	Solid	8015D	3391
885-2899-7	BH24-18 2'	Total/NA	Solid	8015D	3391
MB 885-3391/1-A	Method Blank	Total/NA	Solid	8015D	3391
LCS 885-3391/2-A	Lab Control Sample	Total/NA	Solid	8015D	3391

Analysis Batch: 3498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-1	BH24-05 0'	Total/NA	Solid	8021B	3391
885-2899-2	BH24-05 2;	Total/NA	Solid	8021B	3391
885-2899-3	BH24-05 9'	Total/NA	Solid	8021B	3391
885-2899-4	BH24-17 0'	Total/NA	Solid	8021B	3391
885-2899-5	BH24-17 2'	Total/NA	Solid	8021B	3391
885-2899-6	BH24-18 0'	Total/NA	Solid	8021B	3391
885-2899-7	BH24-18 2'	Total/NA	Solid	8021B	3391
MB 885-3391/1-A	Method Blank	Total/NA	Solid	8021B	3391
LCS 885-3391/3-A	Lab Control Sample	Total/NA	Solid	8021B	3391

Analysis Batch: 3503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-8	BH24-20 0'	Total/NA	Solid	8015D	3420
885-2899-9	BH24-20 2'	Total/NA	Solid	8015D	3420

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QC Association Summary

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

GC VOA (Continued)

Analysis Batch: 3503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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
885-2899-8 MS	BH24-20 0'	Total/NA	Solid	8015D	3420
885-2899-8 MSD	BH24-20 0'	Total/NA	Solid	8015D	3420

Analysis Batch: 3505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-8	BH24-20 0'	Total/NA	Solid	8021B	3420
885-2899-9	BH24-20 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
885-2899-9 MS	BH24-20 2'	Total/NA	Solid	8021B	3420
885-2899-9 MSD	BH24-20 2'	Total/NA	Solid	8021B	3420

GC Semi VOA

Prep Batch: 3421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-8	BH24-20 0'	Total/NA	Solid	SHAKE	
885-2899-9	BH24-20 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	

Prep Batch: 3441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-1	BH24-05 0'	Total/NA	Solid	SHAKE	_
885-2899-2	BH24-05 2;	Total/NA	Solid	SHAKE	
885-2899-3	BH24-05 9'	Total/NA	Solid	SHAKE	
885-2899-4	BH24-17 0'	Total/NA	Solid	SHAKE	
885-2899-5	BH24-17 2'	Total/NA	Solid	SHAKE	
885-2899-6	BH24-18 0'	Total/NA	Solid	SHAKE	
885-2899-7	BH24-18 2'	Total/NA	Solid	SHAKE	
MB 885-3441/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3441/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2899-7 MS	BH24-18 2'	Total/NA	Solid	SHAKE	
885-2899-7 MSD	BH24-18 2'	Total/NA	Solid	SHAKE	

Analysis Batch: 3463

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-1	BH24-05 0'	Total/NA	Solid	8015D	3441
885-2899-2	BH24-05 2;	Total/NA	Solid	8015D	3441
885-2899-3	BH24-05 9'	Total/NA	Solid	8015D	3441
885-2899-4	BH24-17 0'	Total/NA	Solid	8015D	3441
885-2899-5	BH24-17 2'	Total/NA	Solid	8015D	3441
885-2899-6	BH24-18 0'	Total/NA	Solid	8015D	3441
885-2899-7	BH24-18 2'	Total/NA	Solid	8015D	3441
MB 885-3441/1-A	Method Blank	Total/NA	Solid	8015D	3441
LCS 885-3441/2-A	Lab Control Sample	Total/NA	Solid	8015D	3441
885-2899-7 MS	BH24-18 2'	Total/NA	Solid	8015D	3441
885-2899-7 MSD	BH24-18 2'	Total/NA	Solid	8015D	3441

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QC Association Summary

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

GC Semi VOA

Analysis Batch: 3573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-8	BH24-20 0'	Total/NA	Solid	8015D	3421
885-2899-9	BH24-20 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

HPLC/IC

Leach Batch: 78599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-4	BH24-17 0'	Soluble	Solid	DI Leach	
885-2899-5	BH24-17 2'	Soluble	Solid	DI Leach	
885-2899-6	BH24-18 0'	Soluble	Solid	DI Leach	
885-2899-7	BH24-18 2'	Soluble	Solid	DI Leach	
885-2899-8	BH24-20 0'	Soluble	Solid	DI Leach	
885-2899-9	BH24-20 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	
885-2899-4 MS	BH24-17 0'	Soluble	Solid	DI Leach	
885-2899-4 MSD	BH24-17 0'	Soluble	Solid	DI Leach	

Analysis Batch: 78704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-4	BH24-17 0'	Soluble	Solid	300.0	78599
885-2899-5	BH24-17 2'	Soluble	Solid	300.0	78599
885-2899-6	BH24-18 0'	Soluble	Solid	300.0	78599
885-2899-7	BH24-18 2'	Soluble	Solid	300.0	78599
885-2899-8	BH24-20 0'	Soluble	Solid	300.0	78599
885-2899-9	BH24-20 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
885-2899-4 MS	BH24-17 0'	Soluble	Solid	300.0	78599
885-2899-4 MSD	BH24-17 0'	Soluble	Solid	300.0	78599

Leach Batch: 78732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2899-1	BH24-05 0'	Soluble	Solid	DI Leach	_
885-2899-2	BH24-05 2;	Soluble	Solid	DI Leach	
885-2899-3	BH24-05 9'	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	
885-2899-1 MS	BH24-05 0'	Soluble	Solid	DI Leach	
885-2899-1 MSD	BH24-05 0'	Soluble	Solid	DI Leach	

Analysis Batch: 78778

Lab Sample ID 885-2899-1	Client Sample ID BH24-05 0'	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 78732
885-2899-2	BH24-05 2;	Soluble	Solid	300.0	78732
885-2899-3	BH24-05 9'	Soluble	Solid	300.0	78732

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QC Association Summary

Job ID: 885-2899-1 Client: Vertex

Project/Site: Aldabra 25 Federal #006

HPLC/IC (Continued)

Analysis Batch: 78778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
MB 880-78732/1-A	Method Blank	Soluble	Solid	300.0	78732	
LCS 880-78732/2-A	Lab Control Sample	Soluble	Solid	300.0	78732	
LCSD 880-78732/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78732	
885-2899-1 MS	BH24-05 0'	Soluble	Solid	300.0	78732	
885-2899-1 MSD	BH24-05 0'	Soluble	Solid	300.0	78732	

Lab Chronicle

Client: Vertex Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-05 0'

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2899-1 Date Collected: 04/10/24 12:25

Matrix: Solid

Batch Batch Dilution **Prepared** Batch Method **Factor** Number Analyst or Analyzed **Prep Type** Type Run Lab Total/NA 5030C 3391 EET ALB 04/16/24 15:31 Prep Total/NA 8015D 04/17/24 17:22 3497 JP Analysis 1 **EET ALB** Total/NA Prep 5030C 3391 JP **EET ALB** 04/16/24 15:31 Total/NA 8021B 04/17/24 17:22 Analysis 1 3498 JP **EET ALB** Total/NA Prep SHAKE **EET ALB** 04/17/24 11:31 3441 JU Total/NA Analysis 8015D 1 3463 JU **EET ALB** 04/17/24 20:07 Soluble Leach DI Leach 78732 SMC EET MID 04/19/24 11:37 Soluble Analysis 300.0 78778 SMC **EET MID** 04/19/24 22:41 1

Client Sample ID: BH24-05 2;

Date Collected: 04/09/24 07:45

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2899-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 17:45
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 17:45
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 20:20
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 22:55

Client Sample ID: BH24-05 9'

Date Collected: 04/11/24 12:00

Date Received: 04/16/24 07:55

Lab Sample ID: 885-2899-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 18:09
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 18:09
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 20:33
Soluble	Leach	DI Leach			78732	SMC	EET MID	04/19/24 11:37
Soluble	Analysis	300.0		5	78778	SMC	EET MID	04/19/24 23:00

Client Sample ID: BH24-17 0'

Date Collected: 04/10/24 08:30

Date Received: 04/16/24 07:55

Lab Samp	le ID:	885-2899-4
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 18:32

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3441 JU

3463 JU

78704 SMC

Lab Sample ID: 885-2899-4

Matrix: Solid

Client Sample ID: BH24-17 0' Date Collected: 04/10/24 08:30 Date Received: 04/16/24 07:55

Batch Batch Dilution **Prepared** Batch **Prep Type** Method **Factor** Number Analyst or Analyzed Type Run Lab Total/NA 5030C 3391 EET ALB Prep Total/NA 8021B Analysis 3498 JP 1

04/16/24 15:31 04/17/24 18:32 **EET ALB EET ALB** 04/17/24 11:31 **EET ALB** 04/17/24 20:46 78599 SMC **EET MID** 04/18/24 11:05

EET MID

04/19/24 09:05

Client Sample ID: BH24-17 2'

Prep

Analysis

Analysis

Leach

SHAKE

8015D

300.0

DI Leach

Date Collected: 04/10/24 08:35 Date Received: 04/16/24 07:55

Total/NA

Total/NA

Soluble

Soluble

Lab Sample ID: 885-2899-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 18:56
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 18:56
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 20:59
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 09:19

Client Sample ID: BH24-18 0'

Date Collected: 04/10/24 14:20 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2899-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 19:19
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 19:19
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 21:12
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 09:24

Client Sample ID: BH24-18 2'

Date Collected: 04/10/24 14:25 Date Received: 04/16/24 07:55

Lab Sample ID: 885-2899-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8015D		1	3497	JP	EET ALB	04/17/24 19:42
Total/NA	Prep	5030C			3391	JP	EET ALB	04/16/24 15:31
Total/NA	Analysis	8021B		1	3498	JP	EET ALB	04/17/24 19:42

Eurofins Albuquerque

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BH24-18 2' Date Collected: 04/10/24 14:25

Lab Sample ID: 885-2899-7

Matrix: Solid

Date Received: 04/16/24 07:55

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			3441	JU	EET ALB	04/17/24 11:31
Total/NA	Analysis	8015D		1	3463	JU	EET ALB	04/17/24 21:25
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 09:29

Lab Sample ID: 885-2899-8

Matrix: Solid

Date Collected: 04/11/24 14:00 Date Received: 04/16/24 07:55

Client Sample ID: BH24-20 0'

Batch Dilution Batch Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab 04/16/24 17:07 Total/NA Prep 5030C 3420 JΡ **EET ALB** Total/NA 8015D 04/17/24 23:22 Analysis 3503 RA 1 **EET ALB** Total/NA Prep 5030C 3420 JP **EET ALB** 04/16/24 17:07 Total/NA 8021B 3505 RA **EET ALB** 04/17/24 23:22 Analysis 1 Total/NA Prep SHAKE 3421 PD **EET ALB** 04/17/24 09:56 Total/NA 8015D **EET ALB** Analysis 1 3573 JU 04/18/24 21:55 Soluble Leach DI Leach 78599 SMC EET MID 04/18/24 11:05 Soluble Analysis 300.0 78704 SMC **EET MID** 04/19/24 09:34 1

Client Sample ID: BH24-20 2' Lab Sample ID: 885-2899-9

Matrix: Solid

Date Collected: 04/11/24 14:15 Date Received: 04/16/24 07:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	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 00:27
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 00:27
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 22:07
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 09:48

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 Job ID: 885-2899-1

Project/Site: Aldabra 25 Federal #006

Laboratory: Eurofins Albuquerque

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

Authority	Progr	am	Identification Number	Expiration Date						
New Mexico	State		NM9425, NM0901	02-26-25						
The following analytes	s are included in this repo	ort, but the laboratory is r	not certified by the governing author	ity. This list may include analytes						
for which the agency	does not offer certification	٦.								
Analysis Method	Prep Method	Matrix	Analyte							
8015D	5030C	Gasoline Range Organic	ganics [C6 - C10]							
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]							
8015D	SHAKE	Solid	Motor Oil Range Organic	Motor Oil Range Organics [C28-C40]						
8021B	5030C	Solid	Benzene							
8021B	5030C	Solid	Ethylbenzene							
8021B	5030C	Solid	Toluene							
8021B	5030C	Solid	Xylenes, Total							
Oregon	NELA	P	NM100001	02-26-25						

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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

Eurofins Albuquerque

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Client:	Verl	ex/	Dewn	Turn-Around ☐ Standar Project Nam	d Rush	5 lay	HALL ENVIRONALYSIS LA www.hallenvironmental						AE	301			% 2			
Mailing	Address	s: 01	n file	Aldab Project #: 23E-0		Peral#006	4901 Hawkins NE - Albuquerque, NM 871 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request						108	85-2899	coc					
email c	r Fax#: Package:		☐ Level 4 (Full Validation)	Project Manager: Kent Stallings					PCB's		SIMS		PO ₄ , SO ₄							
Accred		□ Az Co	ompliance	Sampler: On Ice: # of Coolers Cooler Tem		JO 90 16+0.1=1.7 (°C)	MTBE / TMB's	TPH:8015D(GRO / DRO / MRO)	Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS		Br, NO ₃ , NO ₂ ,	OA)	8270 (Semi-VOA)	Coliform (Present/Absent)				
Date 4	Time	Matrix Sol (Sample Name BH24-05 0'	Container Type and #	Preservative Type		/ BIEX/	< TPH:801	8081 Pe	EDB (Me	PAHs by	RCRA 8 Metals	Ä, F, B	8260 (VOA)	8270 (Se	Total Co	,,,,			
4/9/24	7:45		BH24-05 2' BH24-05 9'			-2 -3		1												
4/10/24 4/10/24	8:30 8:35 14:20		BH24-17 0° BH24-17 2° BH24-18 0°			-4 -5						ú								
4/11/29	14:25		BH24-18 2- BH24-10 0- BH24-20 2-			-7 -8 -9			. '			-71		41.11			-13			
41116	(-()	V	D"CT- 20 d	V	V		W	V					W							
Date:	Time:	Relinquish		Received by:	Via:	Date Time 4/15/24 1045	Ren	nark	s: D	516	etl	6:11	10	: [)eu	0/	(N)	o#:	10059	86201
Date:	Time: (900	1	шшүр	Received by:	Via:	Date Time														

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Eurofins Albuquerque

4901 Hawkins NE Albuquerque NM 87109 Phone 505-345-3975 Fax: 505-345-4107

Chain of Custody Record



Carrier Tracking No(s)

eurofins

COC No

Environment Testing

4/22/2024

Page 30 of 32

Released to Imaging: 6/27/2024 7:51:27 AM

nt Contact: Phone:						nan, Andy													885-432 1		
Shipping/Receiving	Phone ⁻				Mail ndy free	eman@	State of Originan@et.eurofinsus.com New Mexic					-					Page 1 of 1				
Company Eurofins Environment Testing South Centr						editation					Meyir	<u> </u>							Job #: 885-2899-1		
Address	Due Date Request	∍d		***************************************		ELAP - Oregon State - New Mexico									Preservation Codes						
1211 W Florida Ave	4/22/2024								Ar	nalys	is R	lequ	este	d					Preservation Code	es	
City ⁻ Midland	TAT Requested (da	ıys):											7			T					
State, Zip:																					
TX 79701																					
Phone: 432-704-5440(Tel)	PO#:																				
Email	WO #:				or No	Jorid															
Project Name	Project #		***************************************		الإ -	Ž 🖁												ers			
Aldabra 25 Federal #006	88501278					8 A												tain			
Site:	SSOW#:				dwb		1											000	Other ⁻		
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid O=waste/oil	d Filtered S	Perform MS/MSD (Yes or No) 300_ORGFM_28D/DI_LEACH Chloride												Total Number of			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)		Air) ii	Ser Ser	`											Tota	Special In	structions/N	ote:
	$\chi \chi $	χ	Preserva	tion Code		X												X			
BH24-05 0' (885-2899-1)	4/10/24	12 25 Mountain		Solid	П	Х		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	90.7 (07)		232. 399 886				3880579	XX 570230		1			
BH24-05 2, (885-2899-2)	4/9/24	07 45 Mountain		Solid		х						\top				†		1			
BH24-05 9' (885-2899-3)	4/11/24	12 00 Mountain		Solid	71	x		†			\neg	\top	-	T		T		1			
BH24-17 0' (885-2899-4)	4/10/24	08 30 Mountain		Solid		T _x	1	† _				\dashv	\top	╁		T	 	1			
BH24-17 2' (885-2899-5)	4/10/24	08 35 Mountain		Solid	T	X					\dashv			+		T	1	1			
BH24-18 0' (885-2899-6)	4/10/24	14 20 Mountain	***	Solid	\Box	T _x	:	T			1		-	\dagger		T		1			
BH24-18 2' (885-2899-7)	4/10/24	14 25		Solid	++	x		 			\neg		-	+		-	 	1			
BH24-20 0' (885-2899-8)	4/11/24	Mountain 14 00		Solid	11	+					\dashv	\dashv	-	+	_	-	 	1			
BH24-20 2' (885-2899-9)	4/11/24	Mountain 14 15 Mountain		Solid	\dashv	T _x	1	T			\dashv		\top	+	\dagger	T	+	1			
Note: Since laboratory accreditations are subject to change. Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed aboratory does not currently maintain accreditation status should be brought to Eurofins Environment Testing South Cen		al LLC places																ment			
Possible Hazard Identification						Sampl	le Dis	posa	I (A	fee n	ay b	e ass	esse	d if s	ampi	les a	re re	taine	ed longer than 1	month)	
Unconfirmed							Retur					□ _{Dis}	posai	By L	ab		$\overline{}$		ive For	Months	
Deliverable Requested I II, III IV Other (specify) Primary Deliverable Rank 2							al Inst	ructio	ns/Q	C Re	quirer	nents				****				10001010	
Empty Kit Relinquished by Date						ie (7	\bigcap)	Ме	thod o	f Shipr	ment:					
Relinquished by:	=//17/14 14 30						ceive	ьу	V	J	1		<u></u>	***********	Date	e/Time	9:			Company	
Relinquished by	Date/Time	1-1	· · · ·	Company		Flee	celved	SX	Š	<u></u>	<u> </u>				Date	e/Time	э.			Company	<u>-</u>
Relinquished by	linquished by Date/Time Company					Red	ceived	by [.]							Date	e/Time	3			Company	
Custody Seals Intact: Δ Yes Δ No								Cooler Temperature(s) °C and Other Remarks.													

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2899-1

List Source: Eurofins Albuquerque Login Number: 2899

List Number: 1

Creator: Lowman, Nick

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

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-2899-1

List Source: Eurofins Midland
List Number: 2
List Creation: 04/18/24 11:59 AM

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	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/19/2024 9:11:15 AM

JOB DESCRIPTION

Aldabra 25 Federal #6

JOB NUMBER

885-3646-1

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

Generated 5/19/2024 9:11:15 AM

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

Client: Vertex Laboratory Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

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Definitions/Glossary

Client: Vertex Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

Qualifiers

GC VOA

Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted 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

Eurofins Albuquerque

Case Narrative

Client: Vertex Job ID: 885-3646-1

Project: Aldabra 25 Federal #6

Job ID: 885-3646-1 Eurofins Albuquerque

Job Narrative 885-3646-1

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 5/1/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C.

Eurofins Albuquerque

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Client Sample Results

Client: Vertex Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

Client Sample ID: BH24-21 0' Lab Sample ID: 885-3646-1

Date Collected: 04/29/24 13:00 **Matrix: Solid**

Date Received: 05/01/24 07:35

Chloride

Released to Imaging: 6/27/2024 7:51:27 AM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		05/01/24 16:33	05/02/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/01/24 16:33	05/02/24 18:00	
Method: SW846 8021B - Volat	ile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		05/01/24 16:33	05/02/24 18:00	1
Ethylbenzene	ND		0.048	mg/Kg		05/01/24 16:33	05/02/24 18:00	1
Toluene	ND		0.048	mg/Kg		05/01/24 16:33	05/02/24 18:00	1
Xylenes, Total	ND		0.096	mg/Kg		05/01/24 16:33	05/02/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		48 - 145			05/01/24 16:33	05/02/24 18:00	
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		10	mg/Kg		05/02/24 10:08	05/03/24 00:05	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		05/02/24 10:08	05/03/24 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			05/02/24 10:08	05/03/24 00:05	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					

5.0

mg/Kg

500

05/05/24 01:58

5/19/2024

Client: Vertex Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

Client Sample ID: BH24-21 2' Lab Sample ID: 885-3646-2

Date Collected: 04/29/24 13:15

Matrix: Solid

Method: SW846 8015D - Gaso Analyte		Organics (Qualifier	(GRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND	<u>quanner</u>	5.0	mg/Kg	_ =	05/01/24 16:33	05/02/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	Quantor	35 - 166			05/01/24 16:33	05/02/24 18:21	1
Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		05/01/24 16:33	05/02/24 18:21	1
Ethylbenzene	ND		0.050	mg/Kg		05/01/24 16:33	05/02/24 18:21	1
Toluene	ND		0.050	mg/Kg		05/01/24 16:33	05/02/24 18:21	1
Xylenes, Total	ND		0.10	mg/Kg		05/01/24 16:33	05/02/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		48 - 145			05/01/24 16:33	05/02/24 18:21	1
Method: SW846 8015D - Diese	el Range Org	ganics (DF	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		05/02/24 10:08	05/03/24 00:17	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/02/24 10:08	05/03/24 00:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	88		62 - 134			05/02/24 10:08	05/03/24 00:17	1
Method: EPA 300.0 - Anions, I	on Chromat	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		5.1	mg/Kg			05/05/24 02:17	- 1

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Client: Vertex Project/Site: Aldabra 25 Federal #6 Job ID: 885-3646-1

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

Lab Sample ID: MB 885-4219/1-A

Matrix: Solid

Analysis Batch: 4359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4219

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared 05/01/24 16:33 05/02/24 14:22 Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 05/01/24 16:33 05/02/24 14:22 4-Bromofluorobenzene (Surr) 101 35 - 166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4219

Lab Sample ID: LCS 885-4219/2-A **Matrix: Solid**

Analysis Batch: 4359

LCS LCS

%Recovery Qualifier Surrogate Limits 217 S1+ 35 - 166 4-Bromofluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4219/1-A

Matrix: Solid

Analysis Batch: 4360

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4219

		-					
Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/01/24 16:33	05/02/24 14:22	1
Ethylbenzene	ND	0.050	mg/Kg		05/01/24 16:33	05/02/24 14:22	1
Toluene	ND	0.050	mg/Kg		05/01/24 16:33	05/02/24 14:22	1
Xylenes, Total	ND	0.10	mg/Kg		05/01/24 16:33	05/02/24 14:22	1

MB MB

MR MR

Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 48 - 145 05/01/24 16:33 05/02/24 14:22 4-Bromofluorobenzene (Surr) 86

Lab Sample ID: LCS 885-4219/3-A

Matrix: Solid

Analysis Batch: 4360

Client Sample ID: Lab Control Sample

05/02/24 10:08 05/02/24 22:39

05/02/24 10:08 05/02/24 22:39

Prep Type: Total/NA Prep Batch: 4219

mg/Kg

mg/Kg

LCS LCS Surrogate

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C28-C40]

Released to Imaging: 6/27/2024 7:51:27 AM

%Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 48 - 145 88

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

Lab Sample ID: MB 885-4246/1-A **Client Sample ID: Method Blank**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 4310 Prep Batch: 4246 MB MB Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac

10

50

MB MB

ND

ND

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 78 62 - 134 05/02/24 10:08 05/02/24 22:39

Eurofins Albuquerque

Client: Vertex Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

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

Lab Sample ID: LCS 885-4246/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 4310 LCS LCS Spike

Prep Type: Total/NA

Prep Batch: 4246

%Rec Analyte Added Result Qualifier Unit %Rec Limits D **Diesel Range Organics** 50.0 44.1 mg/Kg 88

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 62 - 134 87

60 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-79938/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 79958

MB MB

Analyte Result Qualifier RL Unit D **Prepared** Analyzed Dil Fac Chloride 5.0 05/05/24 01:02 ND mg/Kg

Lab Sample ID: LCS 880-79938/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 79958

Spike LCS LCS %Rec Analyte Added Result Qualifier D Limits Unit %Rec Chloride 250 236 90 - 110 mg/Kg 94

Lab Sample ID: LCSD 880-79938/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 79958

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Analyte Unit D %Rec Limits RPD Limit Chloride 250 235 mg/Kg 94 90 - 110 20

Eurofins Albuquerque

Client: Vertex

Project/Site: Aldabra 25 Federal #6

Job ID: 885-3646-1

GC VOA

Prep Batch: 4219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3646-1	BH24-21 0'	Total/NA	Solid	5030C	
885-3646-2	BH24-21 2'	Total/NA	Solid	5030C	
MB 885-4219/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4219/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4219/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 4359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3646-1	BH24-21 0'	Total/NA	Solid	8015D	4219
885-3646-2	BH24-21 2'	Total/NA	Solid	8015D	4219
MB 885-4219/1-A	Method Blank	Total/NA	Solid	8015D	4219
LCS 885-4219/2-A	Lab Control Sample	Total/NA	Solid	8015D	4219

Analysis Batch: 4360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3646-1	BH24-21 0'	Total/NA	Solid	8021B	4219
885-3646-2	BH24-21 2'	Total/NA	Solid	8021B	4219
MB 885-4219/1-A	Method Blank	Total/NA	Solid	8021B	4219
LCS 885-4219/3-A	Lab Control Sample	Total/NA	Solid	8021B	4219

GC Semi VOA

Prep Batch: 4246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3646-1	BH24-21 0'	Total/NA	Solid	SHAKE	
885-3646-2	BH24-21 2'	Total/NA	Solid	SHAKE	
MB 885-4246/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4246/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4310

Lab Sample ID 885-3646-1	Client Sample ID BH24-21 0'	Prep Type Total/NA	Matrix Solid	Method 8015D	Prep Batch 4246
885-3646-2	BH24-21 2'	Total/NA	Solid	8015D	4246
MB 885-4246/1-A	Method Blank	Total/NA	Solid	8015D	4246
LCS 885-4246/2-A	Lab Control Sample	Total/NA	Solid	8015D	4246

HPLC/IC

Leach Batch: 79938

Lab Sample ID 885-3646-1	Client Sample ID BH24-21 0'	Prep Type Soluble	Matrix Solid	Method Prep Batc
885-3646-2	BH24-21 2'	Soluble	Solid	DI Leach
MB 880-79938/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-79938/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-79938/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

Analysis Batch: 79958

Lab Samula ID	Client Comple ID	Dran Time	Matrix	Mathad	Draw Batab
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3646-1	BH24-21 0'	Soluble	Solid	300.0	79938
885-3646-2	BH24-21 2'	Soluble	Solid	300.0	79938
MB 880-79938/1-A	Method Blank	Soluble	Solid	300.0	79938
LCS 880-79938/2-A	Lab Control Sample	Soluble	Solid	300.0	79938

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QC Association Summary

Client: Vertex Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

HPLC/IC (Continued)

Analysis Batch: 79958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-79938/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79938

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Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

Client: Vertex

Client Sample ID: BH24-21 0'

Lab Sample ID: 885-3646-1

Matrix: Solid

Date Collected: 04/29/24 13:00 Date Received: 05/01/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 18:00
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 18:00
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 00:05
Soluble	Leach	DI Leach			79938	SA	EET MID	05/03/24 13:23
Soluble	Analysis	300.0		1	79958	SMC	EET MID	05/05/24 01:58

Lab Sample ID: 885-3646-2

Client Sample ID: BH24-21 2' Date Collected: 04/29/24 13:15

Matrix: Solid

Date Received: 05/01/24 07:35

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8015D		1	4359	RA	EET ALB	05/02/24 18:21
Total/NA	Prep	5030C			4219	JP	EET ALB	05/01/24 16:33
Total/NA	Analysis	8021B		1	4360	RA	EET ALB	05/02/24 18:21
Total/NA	Prep	SHAKE			4246	DH	EET ALB	05/02/24 10:08
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/03/24 00:17
Soluble	Leach	DI Leach			79938	SA	EET MID	05/03/24 13:23
Soluble	Analysis	300.0		1	79958	SMC	EET MID	05/05/24 02:17

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-3646-1

Project/Site: Aldabra 25 Federal #6

Laboratory: Eurofins Albuquerque

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

Authority	Progr	am	Identification Number	Expiration Date
New Mexico	State		NM9425, NM0901	02-26-25
	•	•	not certified by the governing authori	ty. This list may include analytes
0 ,	does not offer certification			
Analysis Method	Prep Method	Matrix	Analyte	
8015D	5030C	Solid	Gasoline Range Organics	s [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [6	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	
Oregon	NELA	Þ	NM100001	02-26-25

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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

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Chain-of-Custody Record Client: Lettex / Devon	Turn-Around Time: Standard Rush 5 MA Project Name: Allabra 25 Federal #6	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com				
Mailing Address: On file	Aldabra 25 Federal #6	4901 Hawkins NE - Albuquerque, NM 8710				
Phone #:	Project #: 23E-04614	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request 885-3646 COC				
email or Fax#:	Project Manager:					
QA/QC Package: □ Standard □ Level 4 (Full Validation)	Kentstallings	(80) (80) (81) (81) (81) (82) (81) (82) (83) (83) (83) (83) (83) (83) (83) (83				
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other	Sampler: S M On Ice; ∠B→Yes □ No	E / TMB' RO / DR(Ss/8082 504.1) or 8270 Ss NO ₂ ,				
□ EDD (Type)	# of Coolers: \ Your Cooler Temp(including CF): 3.846.1=3.9(°C)	/ MTBE / NTBE/O15D(GRC Method 50 Method 50 NO3, Semi-VO/O2)				
Date Time Matrix Sample Name 9 1/29/14 13:00 Sii 2474-21 0	Container Preservative HEAL No. Type and # Type	客正文 / MTBE / TMB's TPH:8015D(GRO / DRO 8081 Pesticides/8082 PP EDB (Method 504.1) PAHs by 8310 or 8270S RCRA 8 Metals 会, F, Br, NO ₃ , NO ₂ , P 8260 (VOA) 7 Cotal Coliform (Present/				
	40zja Ice					
of 1315 J BH24-21 2-	V V					
		 				
		 				
Dete. Time Relinquished by	Received by: Via. Date Time William 4/30/24 850	Remarks: Directoil to Devon : MOH: 10059 86201				
Date Time Religiquished by 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	Received by Via Date Time Oun! W 5/1/2 4 7/35 contracted to other accredited laboratories. This serves as notice of the	cc. KStalling Sovertex: a Smcaty Ewlex a is possibility Any sub-contracted data will be clearly notated on the analytical report.				

5/19/2024

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3646-1

Login Number: 3646 List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

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

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3646-1

Login Number: 3646
List Source: Eurofins Midland
List Number: 2
List Creation: 05/03/24 11:32 AM

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	
s 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	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/7/2024 12:54:27 PM

JOB DESCRIPTION

Aldabra 25 Federal #006

JOB NUMBER

885-3291-1

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

Generated 5/7/2024 12:54:27 PM

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

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Client: Vertex Laboratory Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

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Definitions/Glossary

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Qualifiers

HPLC/IC

Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Vertex Job ID: 885-3291-1

Project: Aldabra 25 Federal #006

Job ID: 885-3291-1 Eurofins Albuquerque

Job Narrative 885-3291-1

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 4/24/2024 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1°C and 1.6°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

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-3939 recovered above the upper control limit for Di-n-octyl phthalate (Surr). Percent recovery for DRO is acceptable. The samples associated with this had passing surrogate or high surrogate/ND results; therefore, the data have been reported. Re-running any samples with high surrogate and hits. The associated samples are impacted: WS24-01 0-2' (885-3291-1), WS24-02 0-2' (885-3291-2), WS24-03 2-6' (885-3291-3), WS24-04 0-10' (885-3291-4), WS24-05 0-10' (885-3291-5), WS24-06 0-10' (885-3291-6), WS24-07 0-10' (885-3291-7), BS24-01 2' (885-3291-8), BS24-02 10 (885-3291-9), BS24-03 2' (885-3291-10), BS24-04 2' (885-3291-11), BS24-05 2' (885-3291-12), BS24-06 6' (885-3291-13), BS24-07 10' (885-3291-14), BS24-08 2' (885-3291-15), (CCV 885-3939/42), (LCS 885-3839/2-A), (MB 885-3839/1-A), (885-3300-A-23-B), (885-3300-A-23-C MS) and (885-3300-A-23-D MSD).

Method 8015D_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-4160 and analytical batch 885-4196 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-01 0-2'

Lab Sample ID: 885-3291-1 Date Collected: 04/19/24 10:20

Matrix: Solid

Method: SW846 8015D - Gasolin Analyte		ics (GRO) (C Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/24/24 09:40	04/25/24 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 244			04/24/24 09:40	04/25/24 20:06	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		04/24/24 09:40	04/25/24 20:06	1
Ethylbenzene	ND		0.049	mg/Kg		04/24/24 09:40	04/25/24 20:06	1
Toluene	ND		0.049	mg/Kg		04/24/24 09:40	04/25/24 20:06	1
Xylenes, Total	ND		0.098	mg/Kg		04/24/24 09:40	04/25/24 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		39 - 146			04/24/24 09:40	04/25/24 20:06	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]	480		8.7	mg/Kg		04/24/24 15:00	04/25/24 17:41	1
Motor Oil Range Organics [C28-C40]	270		44	mg/Kg		04/24/24 15:00	04/25/24 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134			04/24/24 15:00	04/25/24 17:41	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

60

mg/Kg

130

04/24/24 19:38

04/24/24 14:12

Chloride

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-02 0-2'

Date Collected: 04/19/24 10:08 Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte Gasoline Range Organics [C6 - C10]	Result	Qualifier	RL 4.8	Unit mg/Kg	<u>D</u>	Prepared 04/24/24 09:40	Analyzed 04/25/24 21:16	Dil Fac	
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 15 - 244	g/1.g		Prepared 04/24/24 09:40	Analyzed 04/25/24 21:16	Dil Fac	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/24 09:40	04/25/24 21:16	1
Ethylbenzene	ND		0.048	mg/Kg		04/24/24 09:40	04/25/24 21:16	1
Toluene	ND		0.048	mg/Kg		04/24/24 09:40	04/25/24 21:16	1
Xylenes, Total	ND		0.096	mg/Kg		04/24/24 09:40	04/25/24 21:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/24/24 09:40	04/25/24 21:16	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		9.0	mg/Kg		04/24/24 15:00	04/26/24 12:06	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/24/24 15:00	04/26/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			04/24/24 15:00	04/26/24 12:06	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	280	60	mg/Kg		04/24/24 14:12	04/24/24 20:17	20

Eurofins Albuquerque

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-03 2-6'

Lab Sample ID: 885-3291-3 Date Collected: 04/19/24 09:05

Matrix: Solid

04/24/24 20:29

04/24/24 14:12

Date Received: 04/24/24 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/24/24 09:40	04/25/24 22:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 244			04/24/24 09:40	04/25/24 22:49	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/24/24 09:40	04/25/24 22:49	1
Ethylbenzene	ND		0.046	mg/Kg		04/24/24 09:40	04/25/24 22:49	1
Toluene	ND		0.046	mg/Kg		04/24/24 09:40	04/25/24 22:49	1
Xylenes, Total	ND		0.092	mg/Kg		04/24/24 09:40	04/25/24 22:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/24/24 09:40	04/25/24 22:49	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GO	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	88		8.8	mg/Kg		04/24/24 15:00	04/26/24 12:30	1
Motor Oil Range Organics	53		44	mg/Kg		04/24/24 15:00	04/26/24 12:30	1
[C28-C40]								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	131		62 - 134			04/24/24 15:00	04/26/24 12:30	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
•	• •	•					Analyzed	

60

mg/Kg

290

Chloride

Client Sample Results

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-04 0-10'

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

110

Analyte

Chloride

Lab Sample ID: 885-3291-4 Date Collected: 04/19/24 09:15

Matrix: Solid

Method: SW846 8015D - Gasoline	•	, ,,	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		04/24/24 09:40	04/25/24 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 244			04/24/24 09:40	04/25/24 23:12	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		04/24/24 09:40	04/25/24 23:12	1
Ethylbenzene	ND		0.048	mg/Kg		04/24/24 09:40	04/25/24 23:12	1
Toluene	ND		0.048	mg/Kg		04/24/24 09:40	04/25/24 23:12	1
Xylenes, Total	ND		0.096	mg/Kg		04/24/24 09:40	04/25/24 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/24/24 09:40	04/25/24 23:12	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	780		18	mg/Kg		04/24/24 15:00	04/26/24 12:54	2
Motor Oil Range Organics [C28-C40]	510		90	mg/Kg		04/24/24 15:00	04/26/24 12:54	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	116		62 - 134			04/24/24 15:00	04/26/24 12:54	

RL

60

Unit

mg/Kg

Prepared

04/24/24 14:12

Analyzed

04/24/24 20:42

Dil Fac

20

Eurofins Albuquerque

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

280

Analyte

Chloride

Client Sample ID: WS24-05 0-10'

Lab Sample ID: 885-3291-5

Date Collected: 04/19/24 09:30 Matrix: Solid
Date Received: 04/24/24 07:45

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC) Dil Fac Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics [C6 - C10] ND 4.8 mg/Kg 04/24/24 09:40 04/25/24 23:36 Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 15 - 244 04/24/24 09:40 04/25/24 23:36 91 Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene ND 0.024 mg/Kg 04/24/24 09:40 04/25/24 23:36 ND Ethylbenzene 04/24/24 09:40 04/25/24 23:36 0.048 mg/Kg ND 04/24/24 09:40 04/25/24 23:36 Toluene 0.048 mg/Kg ND Xylenes, Total 0.097 04/24/24 09:40 04/25/24 23:36 mg/Kg Qualifier %Recovery Limits Prepared Dil Fac Surrogate Analyzed 39 - 146 4-Bromofluorobenzene (Surr) 91 04/24/24 09:40 04/25/24 23:36 Method: SW846 8015D - Diesel Range Organics (DRO) (GC) RL Dil Fac Analyte Result Qualifier Unit D Prepared Analyzed 9.3 190 mg/Kg 04/24/24 15:00 04/26/24 13:42 Diesel Range Organics [C10-C28] **Motor Oil Range Organics** 47 mg/Kg 04/24/24 15:00 04/26/24 13:42 130 [C28-C40] Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Di-n-octyl phthalate (Surr) 120 62 - 134 04/24/24 15:00 04/26/24 13:42

RL

60

Unit

mg/Kg

Prepared

04/24/24 14:12

Eurofins Albuquerque

Dil Fac

20

Analyzed

04/24/24 20:55

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-06 0-10'

Lab Sample ID: 885-3291-6 Date Collected: 04/19/24 09:50

Matrix: Solid

Date Received: 04/24/24 07:45

Surrogate

Analyte

Chloride

Di-n-octyl phthalate (Surr)

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/24/24 09:40	04/25/24 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 244			04/24/24 09:40	04/25/24 23:59	1
- Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/24 09:40	04/25/24 23:59	1
Ethylbenzene	ND		0.050	mg/Kg		04/24/24 09:40	04/25/24 23:59	1
Toluene	ND		0.050	mg/Kg		04/24/24 09:40	04/25/24 23:59	1
Xylenes, Total	ND		0.10	mg/Kg		04/24/24 09:40	04/25/24 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/24/24 09:40	04/25/24 23:59	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	300		9.8	mg/Kg		04/24/24 15:00	04/25/24 18:45	1
Motor Oil Range Organics [C28-C40]	260		49	mg/Kg		04/24/24 15:00	04/25/24 18:45	1

RL

60

Unit

mg/Kg

Limits

62 - 134

%Recovery Qualifier

Result Qualifier

122

260

Eurofins Albuquerque

Prepared

04/24/24 15:00

Prepared

04/24/24 14:12

Analyzed

04/25/24 18:45

Analyzed

04/24/24 21:34

Dil Fac

Dil Fac

Client Sample Results

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-07 0-10'

Lab Sample ID: 885-3291-7 Date Collected: 04/19/24 10:00

Matrix: Solid

Method: SW846 8015D - Gasoline Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/24/24 09:40	04/26/24 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/24/24 09:40	04/26/24 00:23	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/24/24 09:40	04/26/24 00:23	1
Ethylbenzene	ND		0.047	mg/Kg		04/24/24 09:40	04/26/24 00:23	1
Toluene	ND		0.047	mg/Kg		04/24/24 09:40	04/26/24 00:23	1
Xylenes, Total	ND		0.094	mg/Kg		04/24/24 09:40	04/26/24 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		39 - 146			04/24/24 09:40	04/26/24 00:23	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		8.8	mg/Kg		04/24/24 15:00	04/26/24 14:06	1
Motor Oil Range Organics [C28-C40]	190		44	mg/Kg		04/24/24 15:00	04/26/24 14:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	120		62 - 134			04/24/24 15:00	04/26/24 14:06	1

60

mg/Kg

94

04/24/24 14:12 04/24/24 21:47

20

Chloride

Client Sample Results

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-01 2'

Lab Sample ID: 885-3291-8

Matrix: Solid

Date Collected: 04/19/24 10:05 Date Received: 04/24/24 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/24/24 09:40	04/26/24 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 244			04/24/24 09:40	04/26/24 00:46	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		04/24/24 09:40	04/26/24 00:46	1
Ethylbenzene	ND		0.046	mg/Kg		04/24/24 09:40	04/26/24 00:46	1
Toluene	ND		0.046	mg/Kg		04/24/24 09:40	04/26/24 00:46	1
Xylenes, Total	ND		0.093	mg/Kg		04/24/24 09:40	04/26/24 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/24/24 09:40	04/26/24 00:46	1
Method: SW846 8015D - Diesel R	Range Organics	s (DRO) (GO	;)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	360		9.9	mg/Kg		05/01/24 08:32	05/01/24 10:47	1
Motor Oil Range Organics [C28-C40]	170		50	mg/Kg		05/01/24 08:32	05/01/24 10:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			05/01/24 08:32	05/01/24 10:47	1
		to a						
Method: EPA 300.0 - Anions, Ion	Chromatograp	ony						
Method: EPA 300.0 - Anions, Ion Analyte	• •	Ony Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-02 10

Lab Sample ID: 885-3291-9

Date Collected: 04/19/24 09:45 Matrix: Solid Date Received: 04/24/24 07:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/24/24 09:40	04/26/24 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 244			04/24/24 09:40	04/26/24 01:10	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		04/24/24 09:40	04/26/24 01:10	1
Ethylbenzene	ND		0.049	mg/Kg		04/24/24 09:40	04/26/24 01:10	1
Toluene	ND		0.049	mg/Kg		04/24/24 09:40	04/26/24 01:10	1
Xylenes, Total	ND		0.098	mg/Kg		04/24/24 09:40	04/26/24 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146			04/24/24 09:40	04/26/24 01:10	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	280		9.0	mg/Kg		04/24/24 15:00	04/25/24 19:23	1
Motor Oil Range Organics [C28-C40]	260		45	mg/Kg		04/24/24 15:00	04/25/24 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	133		62 - 134			04/24/24 15:00	04/25/24 19:23	1

RL

150

Unit

mg/Kg

Prepared

04/24/24 14:12

Analyzed

04/27/24 16:11

Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

2300

Analyte

Chloride

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-03 2' Date Collected: 04/19/24 10:10

Lab Sample ID: 885-3291-10

•	Gampio	 000	0_0		•
		Ma	trix:	Sol	hi

Method: SW846 8015D - Gasolin	e Kange Organ	ics (GRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		04/24/24 09:40	04/26/24 01:33	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	97		15 - 244			04/24/24 09:40	04/26/24 01:33	
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
	•	ounds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	•	• •			<u>D</u>	Prepared 04/24/24 09:40	Analyzed 04/26/24 01:33	Dil Fac
Analyte Benzene	Result	• •	RL		<u>D</u>			Dil Fac
Method: SW846 8021B - Volatile Analyte Benzene Ethylbenzene Toluene	Result ND	• •	RL 0.024	mg/Kg	<u>D</u>	04/24/24 09:40	04/26/24 01:33	Dil Fac

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	39 - 146	04/24/24 09:40	04/26/24 01:33	1
_					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	140		9.0	mg/Kg		04/24/24 15:00	04/26/24 15:43	1
Motor Oil Range Organics [C28-C40]	110		45	mg/Kg		04/24/24 15:00	04/26/24 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	130		62 - 134			04/24/24 15:00	04/26/24 15:43	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	60	mg/Kg		04/24/24 14:12	04/24/24 22:25	20

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-04 2'

Lab Sample ID: 885-3291-11 Date Collected: 04/19/24 10:12

Matrix: Solid

Date Received: 04/24/24 07:45

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/24/24 09:40	04/26/24 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 244			04/24/24 09:40	04/26/24 02:20	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/24 09:40	04/26/24 02:20	1
Ethylbenzene	ND		0.049	mg/Kg		04/24/24 09:40	04/26/24 02:20	1
Toluene	ND		0.049	mg/Kg		04/24/24 09:40	04/26/24 02:20	1
Xylenes, Total	ND		0.099	mg/Kg		04/24/24 09:40	04/26/24 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/24/24 09:40	04/26/24 02:20	1
Method: SW846 8015D - Diesel R	ange Organics	(DRO) (GC	c)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44		9.1	mg/Kg		04/24/24 15:00	04/26/24 16:07	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		04/24/24 15:00	04/26/24 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	129		62 - 134			04/24/24 15:00	04/26/24 16:07	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						

60

mg/Kg

74

04/24/24 14:12 04/24/24 22:38

20

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-05 2' Date Collected: 04/19/24 10:15

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-12

Lab	Sample	ID.	003-323	1-12
			Matrice	0-11-4

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		04/24/24 09:40	04/26/24 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		15 - 244			04/24/24 09:40	04/26/24 02:43	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/24 09:40	04/26/24 02:43	1
Ethylbenzene	ND		0.049	mg/Kg		04/24/24 09:40	04/26/24 02:43	1
Toluene	ND		0.049	mg/Kg		04/24/24 09:40	04/26/24 02:43	1
Xylenes, Total	ND		0.099	mg/Kg		04/24/24 09:40	04/26/24 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		39 - 146			04/24/24 09:40	04/26/24 02:43	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		8.8	mg/Kg		04/24/24 15:00	04/25/24 20:14	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		04/24/24 15:00	04/25/24 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	123		62 - 134			04/24/24 15:00	04/25/24 20:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
, 								

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-06 6' Date Collected: 04/19/24 09:00

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-13

Matrix: Solid

Method: SW846 8015D - Gasoline	e Range Orgar	nics (GRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		04/24/24 09:40	04/26/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 244			04/24/24 09:40	04/26/24 03:07	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		04/24/24 09:40	04/26/24 03:07	1
Ethylbenzene	ND		0.050	mg/Kg		04/24/24 09:40	04/26/24 03:07	1
Toluene	ND		0.050	mg/Kg		04/24/24 09:40	04/26/24 03:07	1
Xylenes, Total	ND		0.10	mg/Kg		04/24/24 09:40	04/26/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		39 - 146			04/24/24 09:40	04/26/24 03:07	1

Method: SW846 8015D - Diesel F	Range Organics	(DRO) (GO	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	380		9.7	mg/Kg		04/24/24 15:00	04/25/24 20:27	1
Motor Oil Range Organics [C28-C40]	180		49	mg/Kg		04/24/24 15:00	04/25/24 20:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	127		62 - 134			04/24/24 15:00	04/25/24 20:27	1

Method: EPA 300.0 - Anions, ion C	nromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290	60	mg/Kg		04/25/24 16:33	04/25/24 19:44	20

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-07 10'

Date Collected: 04/19/24 09:40

Lab Sample ID: 885-3291-14

Matrix: Solid

Date Received: 04/24/24 07:45	
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		04/24/24 09:40	04/26/24 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 244			04/24/24 09:40	04/26/24 03:31	1

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND ND		0.023	mg/Kg		04/24/24 09:40	04/26/24 03:31	1
Ethylbenzene	ND		0.046	mg/Kg		04/24/24 09:40	04/26/24 03:31	1
Toluene	ND		0.046	mg/Kg		04/24/24 09:40	04/26/24 03:31	1
Xylenes, Total	ND		0.092	mg/Kg		04/24/24 09:40	04/26/24 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146			04/24/24 09:40	04/26/24 03:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		8.5	mg/Kg		04/24/24 15:00	04/26/24 16:31	1
Motor Oil Range Organics [C28-C40]	140		42	mg/Kg		04/24/24 15:00	04/26/24 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			04/24/24 15:00	04/26/24 16:31	1

Welliou. LFA 300.0 - Allions, Ion Ci	iromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	760	60	mg/Kg		04/25/24 16:33	04/25/24 19:59	20

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-08 2'

Date Collected: 04/19/24 10:30

Lab Sample ID: 885-3291-15

Matrix: Solid

αIJ	Sam	pie	ID.	000	-329	11-1	J
				84-	4	0 - 1	

Date Received: 04/24/24	07:45	

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)										
Analyte	Result	Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac			
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg	04/24/24 09:40	04/26/24 03:54	1			
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	95		15 - 244		04/24/24 09:40	04/26/24 03:54	1			

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		04/24/24 09:40	04/26/24 03:54	1
Ethylbenzene	ND		0.048	mg/Kg		04/24/24 09:40	04/26/24 03:54	1
Toluene	ND		0.048	mg/Kg		04/24/24 09:40	04/26/24 03:54	1
Xylenes, Total	ND		0.096	mg/Kg		04/24/24 09:40	04/26/24 03:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			04/24/24 09:40	04/26/24 03:54	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		8.6	mg/Kg		05/01/24 08:32	05/01/24 12:14	1
Motor Oil Range Organics [C28-C40]	130		43	mg/Kg		05/01/24 08:32	05/01/24 12:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			05/01/24 08:32	05/01/24 12:14	1

Method: EPA 300.0 - Amons, ion Ci	iromatograpny						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200	60	mg/Kg		04/25/24 16:33	04/25/24 20:15	20

Prep Batch: 3800

Prep Batch: 3800

Prep Type: Total/NA

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

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

Lab Sample ID: MB 885-3800/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3943

мв мв Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 04/24/24 09:40 04/25/24 19:42

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 98 15 - 244 04/24/24 09:40 04/25/24 19:42

Lab Sample ID: LCS 885-3800/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 3943

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 25.0 25.7 103 70 - 130 Gasoline Range Organics [C6 mg/Kg

C10]

LCS LCS

%Recovery Qualifier Limits Surrogate 213 15 - 244 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-3291-1 MS Client Sample ID: WS24-01 0-2'

Matrix: Solid

Analysis Batch: 3943

Prep Batch: 3800 Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 24.4 107 70 - 130 Gasoline Range Organics [C6 -ND 26.1 mg/Kg

C10]

C10]

MS MS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 218 15 - 244

Lab Sample ID: 885-3291-1 MSD

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 3943** Prep Batch: 3800

Sample Sample MSD MSD Spike %Rec Result Qualifier Added Qualifier RPD Limit Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 24.5 24.1 mg/Kg 98 70 - 130 8 20

MSD MSD

%Recovery Surrogate Qualifier Limits 15 - 244 4-Bromofluorobenzene (Surr) 205

Method: 8021B - Volatile Organic Compounds (GC)

Released to Imaging: 6/27/2024 7:51:27 AM

Analysis Batch: 3944

Lab Sample ID: MB 885-3800/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Prep Batch: 3800

мв мв Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared Benzene ND 0.025 mg/Kg 04/24/24 09:40 04/25/24 19:42 Ethylbenzene ND 0.050 mg/Kg 04/24/24 09:40 04/25/24 19:42 ND 0.050 Toluene 04/24/24 09:40 04/25/24 19:42 mg/Kg

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Client Sample ID: WS24-01 0-2'

RPD

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Lab Sample ID: MB 885-3800/1-A

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

мв мв

Qualifier

Result

ND

Matrix: Solid

Analyte

Xylenes, Total

Analysis Batch: 3944

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 3800

Prep Batch: 3800

Prep Type: Total/NA

Prep Type: Total/NA

Unit Prepared Analyzed Dil Fac 04/24/24 09:40 04/25/24 19:42

MB MB

mg/Kg

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 39 - 146 04/24/24 09:40 04/25/24 19:42

RL

0.10

Lab Sample ID: LCS 885-3800/3-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 3944

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	1.00	1.00		mg/Kg		100	70 - 130
Ethylbenzene	1.00	0.976		mg/Kg		98	70 - 130
m,p-Xylene	2.00	1.97		mg/Kg		98	70 - 130
o-Xylene	1.00	0.968		mg/Kg		97	70 - 130
Toluene	1.00	0.959		mg/Kg		96	70 - 130

LCS LCS %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 98 39 - 146

Lab Sample ID: 885-3291-2 MS Client Sample ID: WS24-02 0-2'

Matrix: Solid

Analysis Batch: 3944									Prep	Batch: 3800
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		0.970	0.945		mg/Kg		97	70 - 130	
Ethylbenzene	ND		0.970	0.931		mg/Kg		96	70 - 130	
m,p-Xylene	ND		1.94	1.90		mg/Kg		97	70 - 130	
o-Xylene	ND		0.970	0.931		mg/Kg		96	70 - 130	
Toluene	ND		0.970	0.904		mg/Kg		93	70 - 130	
	MS	MS								

Surrogate %Recovery Qualifier Limits 39 - 146 4-Bromofluorobenzene (Surr) 100

Lab Sample ID: 885-3291-2 MSD Client Sample ID: WS24-02 0-2'

Matrix: Solid

Analysis Batch: 3944									Prep E		Batch: 3800	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	ND		0.972	0.995	-	mg/Kg		102	70 - 130	5	20	
Ethylbenzene	ND		0.972	0.973		mg/Kg		100	70 - 130	4	20	
m,p-Xylene	ND		1.94	1.95		mg/Kg		99	70 - 130	2	20	
o-Xylene	ND		0.972	0.962		mg/Kg		99	70 - 130	3	20	
Toluene	ND		0.972	0.957		mg/Kg		98	70 - 130	6	20	

MSD MSD %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 101 39 - 146

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Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

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

Lab Sample ID: MB 885-3839/1-A

Matrix: Solid

Lab Sample ID: LCS 885-3839/2-A

Analysis Batch: 3939

Client: Vertex

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

Prep Batch: 3839

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 04/24/24 15:00 04/25/24 17:15 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 04/24/24 15:00 04/25/24 17:15

MB MB

мв мв

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 111 62 - 134 04/24/24 15:00 04/25/24 17:15

Client Sample ID: Lab Control Sample

89

60 - 135

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 3839

Matrix: Solid Analysis Batch: 3939

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 50.0 46.0 92 60 - 135 Diesel Range Organics mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 62 - 134 113

Lab Sample ID: MB 885-4160/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 4196** Prep Batch: 4160

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 05/01/24 08:32 05/01/24 10:10 mg/Kg Motor Oil Range Organics [C28-C40] ND 50 05/01/24 08:32 05/01/24 10:10 mg/Kg

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 100 62 - 134 05/01/24 08:32 05/01/24 10:10

Lab Sample ID: LCS 885-4160/2-A

Analysis Batch: 4196

Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Prep Batch: 4160

> LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits

> > 44.6

mg/Kg

50.0

Diesel Range Organics [C10-C28]

Analyte

LCS LCS

Limits Surrogate %Recovery Qualifier

Di-n-octyl phthalate (Surr) 103 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-3838/1-A

Matrix: Solid

Analysis Batch: 3852

MR MR

Analyte Qualifier Unit Result RL Prepared Analyzed Dil Fac Chloride ND 1.5 04/24/24 14:12 04/24/24 16:14 mg/Kg

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Prep Type: Total/NA

Prep Batch: 3838

Job ID: 885-3291-1

Prep Batch: 3838

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 3924

Prep Batch: 3924

Prep Type: Total/NA

Prep Type: Total/NA

Project/Site: Aldabra 25 Federal #006

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-3838/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid Analysis Batch: 3852 Spike

LCS LCS Analyte Added Result Qualifier Unit %Rec Limits D Chloride 15.0 13.9 mg/Kg 93 90 - 110

Lab Sample ID: 885-3291-1 MS Client Sample ID: WS24-01 0-2'

Matrix: Solid

Client: Vertex

Analysis Batch: 3852

Prep Batch: 3838 Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 130 29.8 158 mg/Kg 82 50 - 150

Lab Sample ID: 885-3291-1 MSD Client Sample ID: WS24-01 0-2

Matrix: Solid

Analysis Batch: 3852

Prep Batch: 3838 MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 130 30.0 154 mg/Kg 50 - 150

Lab Sample ID: MB 885-3924/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3930

мв мв Result Qualifier Unit RL Prepared Analyzed Dil Fac

Analyte mg/Kg Chloride ND 1.5 04/25/24 16:33 04/25/24 18:59

Lab Sample ID: LCS 885-3924/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3930

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 15.0 14.2 mg/Kg 95 90 - 110

Lab Sample ID: MB 885-3930/5 Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 3930

мв мв

Result Analyte Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride ND 0.50 mg/Kg 04/25/24 09:11

Lab Sample ID: MRL 885-3930/4 Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 3930

MRL MRL %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 0.500 0.519 104 50 - 150 mg/L

Lab Sample ID: MRL 885-4015/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 4015

Released to Imaging: 6/27/2024 7:51:27 AM

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 0.500 0.517 mg/L 103 50 - 150

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Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

GC VOA

Prep Batch: 3800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
885-3291-1	WS24-01 0-2'	Total/NA	Solid	5030C	
885-3291-2	WS24-02 0-2'	Total/NA	Solid	5030C	
885-3291-3	WS24-03 2-6'	Total/NA	Solid	5030C	
885-3291-4	WS24-04 0-10'	Total/NA	Solid	5030C	
885-3291-5	WS24-05 0-10'	Total/NA	Solid	5030C	
885-3291-6	WS24-06 0-10'	Total/NA	Solid	5030C	
885-3291-7	WS24-07 0-10'	Total/NA	Solid	5030C	
885-3291-8	BS24-01 2'	Total/NA	Solid	5030C	
885-3291-9	BS24-02 10	Total/NA	Solid	5030C	
885-3291-10	BS24-03 2'	Total/NA	Solid	5030C	
885-3291-11	BS24-04 2'	Total/NA	Solid	5030C	
885-3291-12	BS24-05 2'	Total/NA	Solid	5030C	
885-3291-13	BS24-06 6'	Total/NA	Solid	5030C	
885-3291-14	BS24-07 10'	Total/NA	Solid	5030C	
885-3291-15	BS24-08 2'	Total/NA	Solid	5030C	
MB 885-3800/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-3800/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-3800/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-3291-1 MS	WS24-01 0-2'	Total/NA	Solid	5030C	
885-3291-1 MSD	WS24-01 0-2'	Total/NA	Solid	5030C	
885-3291-2 MS	WS24-02 0-2'	Total/NA	Solid	5030C	
885-3291-2 MSD	WS24-02 0-2'	Total/NA	Solid	5030C	

Analysis Batch: 3943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-1	WS24-01 0-2'	Total/NA	Solid	8015D	3800
885-3291-2	WS24-02 0-2'	Total/NA	Solid	8015D	3800
885-3291-3	WS24-03 2-6'	Total/NA	Solid	8015D	3800
885-3291-4	WS24-04 0-10'	Total/NA	Solid	8015D	3800
885-3291-5	WS24-05 0-10'	Total/NA	Solid	8015D	3800
885-3291-6	WS24-06 0-10'	Total/NA	Solid	8015D	3800
885-3291-7	WS24-07 0-10'	Total/NA	Solid	8015D	3800
885-3291-8	BS24-01 2'	Total/NA	Solid	8015D	3800
885-3291-9	BS24-02 10	Total/NA	Solid	8015D	3800
885-3291-10	BS24-03 2'	Total/NA	Solid	8015D	3800
885-3291-11	BS24-04 2'	Total/NA	Solid	8015D	3800
885-3291-12	BS24-05 2'	Total/NA	Solid	8015D	3800
885-3291-13	BS24-06 6'	Total/NA	Solid	8015D	3800
885-3291-14	BS24-07 10'	Total/NA	Solid	8015D	3800
885-3291-15	BS24-08 2'	Total/NA	Solid	8015D	3800
MB 885-3800/1-A	Method Blank	Total/NA	Solid	8015D	3800
LCS 885-3800/2-A	Lab Control Sample	Total/NA	Solid	8015D	3800
885-3291-1 MS	WS24-01 0-2'	Total/NA	Solid	8015D	3800
885-3291-1 MSD	WS24-01 0-2'	Total/NA	Solid	8015D	3800

Analysis Batch: 3944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-1	WS24-01 0-2'	Total/NA	Solid	8021B	3800
885-3291-2	WS24-02 0-2'	Total/NA	Solid	8021B	3800
885-3291-3	WS24-03 2-6'	Total/NA	Solid	8021B	3800
885-3291-4	WS24-04 0-10'	Total/NA	Solid	8021B	3800

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Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

GC VOA (Continued)

Analysis Batch: 3944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-5	WS24-05 0-10'	Total/NA	Solid	8021B	3800
885-3291-6	WS24-06 0-10'	Total/NA	Solid	8021B	3800
885-3291-7	WS24-07 0-10'	Total/NA	Solid	8021B	3800
885-3291-8	BS24-01 2'	Total/NA	Solid	8021B	3800
885-3291-9	BS24-02 10	Total/NA	Solid	8021B	3800
885-3291-10	BS24-03 2'	Total/NA	Solid	8021B	3800
885-3291-11	BS24-04 2'	Total/NA	Solid	8021B	3800
885-3291-12	BS24-05 2'	Total/NA	Solid	8021B	3800
885-3291-13	BS24-06 6'	Total/NA	Solid	8021B	3800
885-3291-14	BS24-07 10'	Total/NA	Solid	8021B	3800
885-3291-15	BS24-08 2'	Total/NA	Solid	8021B	3800
MB 885-3800/1-A	Method Blank	Total/NA	Solid	8021B	3800
LCS 885-3800/3-A	Lab Control Sample	Total/NA	Solid	8021B	3800
885-3291-2 MS	WS24-02 0-2'	Total/NA	Solid	8021B	3800
885-3291-2 MSD	WS24-02 0-2'	Total/NA	Solid	8021B	3800

GC Semi VOA

Prep Batch: 3839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-1	WS24-01 0-2'	Total/NA	Solid	SHAKE	
885-3291-2	WS24-02 0-2'	Total/NA	Solid	SHAKE	
885-3291-3	WS24-03 2-6'	Total/NA	Solid	SHAKE	
885-3291-4	WS24-04 0-10'	Total/NA	Solid	SHAKE	
885-3291-5	WS24-05 0-10'	Total/NA	Solid	SHAKE	
885-3291-6	WS24-06 0-10'	Total/NA	Solid	SHAKE	
885-3291-7	WS24-07 0-10'	Total/NA	Solid	SHAKE	
885-3291-9	BS24-02 10	Total/NA	Solid	SHAKE	
885-3291-10	BS24-03 2'	Total/NA	Solid	SHAKE	
885-3291-11	BS24-04 2'	Total/NA	Solid	SHAKE	
885-3291-12	BS24-05 2'	Total/NA	Solid	SHAKE	
885-3291-13	BS24-06 6'	Total/NA	Solid	SHAKE	
885-3291-14	BS24-07 10'	Total/NA	Solid	SHAKE	
MB 885-3839/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-3839/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 3939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-1	WS24-01 0-2'	Total/NA	Solid	8015D	3839
885-3291-6	WS24-06 0-10'	Total/NA	Solid	8015D	3839
885-3291-9	BS24-02 10	Total/NA	Solid	8015D	3839
885-3291-12	BS24-05 2'	Total/NA	Solid	8015D	3839
885-3291-13	BS24-06 6'	Total/NA	Solid	8015D	3839
MB 885-3839/1-A	Method Blank	Total/NA	Solid	8015D	3839
LCS 885-3839/2-A	Lab Control Sample	Total/NA	Solid	8015D	3839

Analysis Batch: 4063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-2	WS24-02 0-2'	Total/NA	Solid	8015D	3839
885-3291-3	WS24-03 2-6'	Total/NA	Solid	8015D	3839
885-3291-4	WS24-04 0-10'	Total/NA	Solid	8015D	3839

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Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

GC Semi VOA (Continued)

Analysis Batch: 4063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-5	WS24-05 0-10'	Total/NA	Solid	8015D	3839
885-3291-7	WS24-07 0-10'	Total/NA	Solid	8015D	3839
885-3291-10	BS24-03 2'	Total/NA	Solid	8015D	3839
885-3291-11	BS24-04 2'	Total/NA	Solid	8015D	3839
885-3291-14	BS24-07 10'	Total/NA	Solid	8015D	3839

Prep Batch: 4160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-8	BS24-01 2'	Total/NA	Solid	SHAKE	
885-3291-15	BS24-08 2'	Total/NA	Solid	SHAKE	
MB 885-4160/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4160/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-8	BS24-01 2'	Total/NA	Solid	8015D	4160
885-3291-15	BS24-08 2'	Total/NA	Solid	8015D	4160
MB 885-4160/1-A	Method Blank	Total/NA	Solid	8015D	4160
LCS 885-4160/2-A	Lab Control Sample	Total/NA	Solid	8015D	4160

HPLC/IC

Prep Batch: 3838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-1	WS24-01 0-2'	Total/NA	Solid	300_Prep	
885-3291-2	WS24-02 0-2'	Total/NA	Solid	300_Prep	
885-3291-3	WS24-03 2-6'	Total/NA	Solid	300_Prep	
885-3291-4	WS24-04 0-10'	Total/NA	Solid	300_Prep	
885-3291-5	WS24-05 0-10'	Total/NA	Solid	300_Prep	
885-3291-6	WS24-06 0-10'	Total/NA	Solid	300_Prep	
885-3291-7	WS24-07 0-10'	Total/NA	Solid	300_Prep	
885-3291-8	BS24-01 2'	Total/NA	Solid	300_Prep	
885-3291-9	BS24-02 10	Total/NA	Solid	300_Prep	
885-3291-10	BS24-03 2'	Total/NA	Solid	300_Prep	
885-3291-11	BS24-04 2'	Total/NA	Solid	300_Prep	
MB 885-3838/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3838/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-3291-1 MS	WS24-01 0-2'	Total/NA	Solid	300_Prep	
885-3291-1 MSD	WS24-01 0-2'	Total/NA	Solid	300_Prep	

Analysis Batch: 3852

Lab Sample ID	Client Sample ID	Prep Type		Method	Prep Batch
885-3291-1	WS24-01 0-2'	Total/NA	Solid	300.0	3838
885-3291-2	WS24-02 0-2'	Total/NA	Solid	300.0	3838
885-3291-3	WS24-03 2-6'	Total/NA	Solid	300.0	3838
885-3291-4	WS24-04 0-10'	Total/NA	Solid	300.0	3838
885-3291-5	WS24-05 0-10'	Total/NA	Solid	300.0	3838
885-3291-6	WS24-06 0-10'	Total/NA	Solid	300.0	3838
885-3291-7	WS24-07 0-10'	Total/NA	Solid	300.0	3838
885-3291-8	BS24-01 2'	Total/NA	Solid	300.0	3838
885-3291-10	BS24-03 2'	Total/NA	Solid	300.0	3838

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Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

HPLC/IC (Continued)

Analysis Batch: 3852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-11	BS24-04 2'	Total/NA	Solid	300.0	3838
MB 885-3838/1-A	Method Blank	Total/NA	Solid	300.0	3838
LCS 885-3838/2-A	Lab Control Sample	Total/NA	Solid	300.0	3838
885-3291-1 MS	WS24-01 0-2'	Total/NA	Solid	300.0	3838
885-3291-1 MSD	WS24-01 0-2'	Total/NA	Solid	300.0	3838

Prep Batch: 3924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-12	BS24-05 2'	Total/NA	Solid	300_Prep	
885-3291-13	BS24-06 6'	Total/NA	Solid	300_Prep	
885-3291-14	BS24-07 10'	Total/NA	Solid	300_Prep	
885-3291-15	BS24-08 2'	Total/NA	Solid	300_Prep	
MB 885-3924/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-3924/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 3930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3291-12	BS24-05 2'	Total/NA	Solid	300.0	3924
885-3291-13	BS24-06 6'	Total/NA	Solid	300.0	3924
885-3291-14	BS24-07 10'	Total/NA	Solid	300.0	3924
885-3291-15	BS24-08 2'	Total/NA	Solid	300.0	3924
MB 885-3924/1-A	Method Blank	Total/NA	Solid	300.0	3924
MB 885-3930/5	Method Blank	Total/NA	Solid	300.0	
LCS 885-3924/2-A	Lab Control Sample	Total/NA	Solid	300.0	3924
MRL 885-3930/4	Lab Control Sample	Total/NA	Solid	300.0	

Analysis Batch: 4015

Lab Sample ID	Client Sample ID	Prep Type		Method	Prep Batch
885-3291-9	BS24-02 10	Total/NA	Solid	300.0	3838
MRI 885-4015/3	Lab Control Sample	Total/NA	Solid	300 0	

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Client Sample ID: WS24-01 0-2'

Date Collected: 04/19/24 10:20 Date Received: 04/24/24 07:45

Client: Vertex

Lab Sample ID: 885-3291-1

Matrix: Solid

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/25/24 20:06
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/25/24 20:06
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	3939	JU	EET ALB	04/25/24 17:41
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 19:38

Client Sample ID: WS24-02 0-2'

Date Collected: 04/19/24 10:08

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C		- <u> </u>	3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/25/24 21:16
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/25/24 21:16
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	4063	JU	EET ALB	04/26/24 12:06
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 20:17

Client Sample ID: WS24-03 2-6'

Date Collected: 04/19/24 09:05

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/25/24 22:49
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/25/24 22:49
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	4063	JU	EET ALB	04/26/24 12:30
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 20:29

Client Sample ID: WS24-04 0-10'

Date Collected: 04/19/24 09:15

Date Received: 04/24/24 07:45

.ab Sam	ple ID:	885-32	91-4
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/25/24 23:12

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Client Sample ID: WS24-04 0-10'

Date Collected: 04/19/24 09:15 Date Received: 04/24/24 07:45

Client: Vertex

Lab Sample ID: 885-3291-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/25/24 23:12
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		2	4063	JU	EET ALB	04/26/24 12:54
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 20:42

Client Sample ID: WS24-05 0-10'

Date Collected: 04/19/24 09:30 Date Received: 04/24/24 07:45 Lab Sample ID: 885-3291-5

Matrix: Solid

Batch	Batch		Dilution	Batch			Prepared
Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Analysis	8015D		1	3943	JP	EET ALB	04/25/24 23:36
Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Analysis	8021B		1	3944	JP	EET ALB	04/25/24 23:36
Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Analysis	8015D		1	4063	JU	EET ALB	04/26/24 13:42
Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Analysis	300.0		20	3852	JT	EET ALB	04/24/24 20:55
	Type Prep Analysis Prep Analysis Prep Analysis Prep Analysis	Type Method Prep 5030C Analysis 8015D Prep 5030C Analysis 8021B Prep SHAKE Analysis 8015D Prep 300_Prep	Type Method Run Prep 5030C Analysis 8015D Prep 5030C Analysis 8021B Prep SHAKE Analysis 8015D Prep 300_Prep	Type Method Run Factor Prep 5030C 1 Analysis 8015D 1 Prep 5030C 1 Analysis 8021B 1 Prep SHAKE 1 Analysis 8015D 1 Prep 300_Prep	Type Method Run Factor Number Prep 5030C 3800 Analysis 8015D 1 3943 Prep 5030C 3800 Analysis 8021B 1 3944 Prep SHAKE 3839 Analysis 8015D 1 4063 Prep 300_Prep 3838	Type Method Run Factor Number Analyst Prep 5030C 3800 JP Analysis 8015D 1 3943 JP Prep 5030C 3800 JP Analysis 8021B 1 3944 JP Prep SHAKE 3839 JU Analysis 8015D 1 4063 JU Prep 300_Prep 3838 RC	Type Method Run Factor Number Analyst Lab Prep 5030C 3800 JP EET ALB Analysis 8015D 1 3943 JP EET ALB Prep 5030C 3800 JP EET ALB Analysis 8021B 1 3944 JP EET ALB Prep SHAKE 3839 JU EET ALB Analysis 8015D 1 4063 JU EET ALB Prep 300_Prep 3838 RC EET ALB

Client Sample ID: WS24-06 0-10'

Date Collected: 04/19/24 09:50 Date Received: 04/24/24 07:45 Lab Sample ID: 885-3291-6

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/25/24 23:59
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/25/24 23:59
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	3939	JU	EET ALB	04/25/24 18:45
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 21:34

Client Sample ID: WS24-07 0-10'

Date Collected: 04/19/24 10:00 Date Received: 04/24/24 07:45 Lab Sample ID: 885-3291-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 00:23
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 00:23

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Client: Vertex Project/Site: Aldabra 25 Federal #006

Client Sample ID: WS24-07 0-10'

Date Collected: 04/19/24 10:00 Date Received: 04/24/24 07:45 Lab Sample ID: 885-3291-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	4063	JU	EET ALB	04/26/24 14:06
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 21:47

Client Sample ID: BS24-01 2'

Date Collected: 04/19/24 10:05

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-8

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 00:46
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 00:46
Total/NA	Prep	SHAKE			4160	JU	EET ALB	05/01/24 08:32
Total/NA	Analysis	8015D		1	4196	JU	EET ALB	05/01/24 10:47
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 21:59

Client Sample ID: BS24-02 10

Date Collected: 04/19/24 09:45

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-9

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 01:10
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 01:10
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	3939	JU	EET ALB	04/25/24 19:23
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		50	4015	JT	EET ALB	04/27/24 16:11

Client Sample ID: BS24-03 2'

Date Collected: 04/19/24 10:10

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 01:33
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 01:33
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	4063	JU	EET ALB	04/26/24 15:43

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Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Client Sample ID: BS24-03 2'

Date Collected: 04/19/24 10:10 Date Received: 04/24/24 07:45

Client: Vertex

Lab Sample ID: 885-3291-10

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 22:25

Client Sample ID: BS24-04 2'

Date Collected: 04/19/24 10:12

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-11

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 02:20
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 02:20
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	4063	JU	EET ALB	04/26/24 16:07
Total/NA	Prep	300_Prep			3838	RC	EET ALB	04/24/24 14:12
Total/NA	Analysis	300.0		20	3852	JT	EET ALB	04/24/24 22:38

Client Sample ID: BS24-05 2'

Date Collected: 04/19/24 10:15

Date Received: 04/24/24 07:45

Lab Sample ID: 885-3291-12

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 02:43
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 02:43
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	3939	JU	EET ALB	04/25/24 20:14
Total/NA	Prep	300_Prep			3924	SS	EET ALB	04/25/24 16:33
Total/NA	Analysis	300.0		20	3930	JT	EET ALB	04/25/24 19:29

Client Sample ID: BS24-06 6'

Date Collected: 04/19/24 09:00

Date Received: 04/24/24 07:45

Lab	Sam	ріе	ID:	885-3	3291-13
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Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 03:07
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 03:07
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	3939	JU	EET ALB	04/25/24 20:27
Total/NA	Prep	300_Prep			3924	SS	EET ALB	04/25/24 16:33
Total/NA	Analysis	300.0		20	3930	JT	EET ALB	04/25/24 19:44

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Client Sample ID: BS24-07 10'

Lab Sample ID: 885-3291-14

Matrix: Solid

Date Collected: 04/19/24 09:40 Date Received: 04/24/24 07:45

Client: Vertex

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 03:31
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 03:31
Total/NA	Prep	SHAKE			3839	JU	EET ALB	04/24/24 15:00
Total/NA	Analysis	8015D		1	4063	JU	EET ALB	04/26/24 16:31
Total/NA	Prep	300_Prep			3924	SS	EET ALB	04/25/24 16:33
Total/NA	Analysis	300.0		20	3930	JT	EET ALB	04/25/24 19:59

Lab Sample ID: 885-3291-15

Matrix: Solid

Client Sample ID: BS24-08 2' Date Collected: 04/19/24 10:30

Date Received: 04/24/24 07:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8015D		1	3943	JP	EET ALB	04/26/24 03:54
Total/NA	Prep	5030C			3800	JP	EET ALB	04/24/24 09:40
Total/NA	Analysis	8021B		1	3944	JP	EET ALB	04/26/24 03:54
Total/NA	Prep	SHAKE			4160	JU	EET ALB	05/01/24 08:32
Total/NA	Analysis	8015D		1	4196	JU	EET ALB	05/01/24 12:14
Total/NA	Prep	300_Prep			3924	SS	EET ALB	04/25/24 16:33
Total/NA	Analysis	300.0		20	3930	JT	EET ALB	04/25/24 20:15

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex Job ID: 885-3291-1

Project/Site: Aldabra 25 Federal #006

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date		
New Mexico	State	NM9425, NM0901	02-26-25		

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Prep Method Matrix			
300.0	300_Prep	Solid	Chloride		
8015D	5030C	Solid	Gasoline Range Orga	anics [C6 - C10]	
8015D	SHAKE	Solid	Diesel Range Organi	cs [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		
egon	NELA	P	NM100001	02-26-25	

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method Matrix		Analyte					
300.0	300_Prep	Solid	Chloride					
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					

Eurofins Albuquerque

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Chain-of-Custody Record

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Chain-of-Custody Record	Turn-Around Time: 48	HALL ENVIRONMENTAL
Client: Vestey Denn	□ Standard □ Rush □ Project Name:	ANALYSIS LABORATORY
	-	www.hallenvironmental.com
Mailing Address: On File	Aldabra 25 Fedural #006 Project #:	4901 Hawkins NE - Albuquerque, NM 87109
		Tel. 505-345-3975 Fax 505-345-4107
Phone #:	23E-04614	Analysis Request
email or Fax#:	Dustrat Managan	SO ₄ SO ₄
QA/QC Package:	305 Seciliars	O / MR O / MR DSIMS DSIMS DSIMS
☐ Standard ☐ Level 4 (Full Validation)	Kent Stallings	PCB's (O / MILYAbs)
Accreditation: □ Az Compliance	Sampler: SM	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals G', F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent)
□ NELAC □ Other	On Ice:	8/8 BS South
□ EDD (Type)	# of Coolers: 2 Mo Ay Cooler Temp(including CF): 1.1-U=1.1 (*C)	D(G
	# of Coolers: Cooler Temp(including CF): 1.1-0=1.6 Container Preservative HEAL No. Type and # Type	TPH:8015D(GRO / DI 8081 Pesticides/8082 EDB (Method 504.1) PAHs by 8310 or 827 RCRA 8 Metals Gi, F, Br, NO ₃ , NO ₂ 8260 (VOA) Total Coliform (Prese
	Container Preservative HEAL No.	(H:8 H:8 H:8
Date Time Matrix Sample Name	Type and # Type	
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9:40 BS24-07 10	14	
V 1030 VI BS24-08 2	15	
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Date: Time: Relinquished by:	Received by: Via: Date Time	CC. KStallings@untexoca
1900 Chumm	(COURSE 4/24/24 7:45	cc. KStallings@wtoxca SMCCorylowaxx pg 2012
	beentracted to other accredited laboratories. This serves as notice of this pos	ssibility. Any sub-contracted data will be clearly notated on the analytical report.
		7 2 9 8 7 6 5 4 3 2 4

Turn-Around Time:

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-3291-1

Login Number: 3291 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Answer	Comment
True	
N/A	
True	
N/A	
True	
True	
N/A	
	True True True True True True True True

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<u>District I</u> 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

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 357398

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357398
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1616056900
Incident Name	NAB1616056900 ALDABRA 25 FEDERAL #006H @ 30-015-38602
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-38602] ALDABRA 25 FEDERAL #006H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ALDABRA 25 FEDERAL #006H
Date Release Discovered	06/06/2016
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Separator Crude Oil Released: 25 BBL Recovered: 15 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 357398

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 357398 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	Initiation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt 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: Dale Woodall Title: EHS Professional

Email: Dale.Woodall@dvn.com

Date: 06/25/2024

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

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

QUESTIONS, Page 3

Action 357398

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357398
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be pro	ovided 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 conta	amination 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	h, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	2300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6400
GRO+DRO (EPA SW-846 Method 8015M)	3500
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes c which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	04/09/2024
On what date will (or did) the final sampling or liner inspection occur	04/19/2024
On what date will (or was) the remediation complete(d)	04/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	13552
What is the estimated volume (in cubic yards) that will be remediated	1269
These estimated dates and measurements are recognized to be the best guess or calcula-	ation 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 adju	usted 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.

District I

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

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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 357398

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357398
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	R360 Artesia LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/25/2024

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

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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 357398

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357398
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

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

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

QUESTIONS, Page 6

Action 357398

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357398
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	334178
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/19/2024
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	1358

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	13552	
What was the total volume (cubic yards) remediated	1269	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	13552	
What was the total volume (in cubic yards) reclaimed	1269	
Summarize any additional remediation activities not included by answers (above)	see report	

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Dale Woodall
Title: EHS Professional
Email: Dale.Woodall@dvn.com
Date: 06/25/2024

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1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 7

Action 357398

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357398
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

District I
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CONDITIONS

Action 357398

CONDITIONS

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333 West Sheridan Ave.	Action Number:
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	6/27/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/27/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/27/2024