

General Information

NMOCD District: Incident ID: nSEB0830236670 Artesia Landowner: Mosaic Potash Carlsbad, Inc. RP Reference: Client: Devon Energy Production Company, LP Site Location: Laguna Salado 22 Federal #004H Date: Project #: 23E-01414-03 14 March 2025 Client Contact: Jim Raley Phone #: 575.689.7597 Vertex PM: **Chad Hensley** Phone #: 575.200.6167

Objective

The objective of the Environmental Site Remediation Work Plan is to identify areas of exceedance for areas of concern following a site investigation, during which background samples were collected for potential naturally elevated chloride levels, to address the open releases at Laguna Salado 22 Federal #004H (hereafter referred to as "the site"). The areas of environmental concern include a substructure flowline that ruptured during a rig move. The initial C-141 Release Notification was submitted on October 13, 2008. (Attachment 5). Closure criteria have been selected as per New Mexico Administrative Code 19.15.29.12. All applicable research as it pertains to closure criteria selection is presented in Attachment 1. The closure criteria for the site are presented below in Table 1.

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

TDS - Total dissolved solids

Site Assessment/Characterization

Site characterization was completed on August 31, 2023. A total of Forty-one sample points (boreholes) were established. Fifty-nine samples, including at the deepest vertical distance investigated, were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, for analysis. All sample points are presented on Figure 1 (Attachment 2). Based on the description of the release area, samples were collected within the area around the wellhead, working outward. Laboratory analysis results have been compared to the closure criteria and the results from the characterization activity are presented in Attachment 4. Exceedances are identified in the table as bold with a grey background and bold with a green background for off-pad criteria.

VERSATILITY. EXPERTISE.

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes



Remedial Activities

General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts. Soil will be excavated to the extents of the known contamination or in 2 feet increments until reaching the subsurface water table. The subsurface water table is based on the current and historical brine lake elevations and corroboration with excavation spud 16 State 10H. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

Sample Point	Excavation Depth	Remediation Method
BH23-01	1'	Backhoe
BH23-03	1'	Backhoe
BH23-04	2-4'	Backhoe
BH23-05	6-8'	Backhoe
BH23-06	6-8'	Backhoe
BH23-07	1'	Backhoe
BH23-09	2-4'	Backhoe
BH23-11	0.5	Backhoe
BH23-12	3'	Backhoe
BH23-13	2-4'	Backhoe
BH23-14	10-12'	Backhoe
BH23-16	2-4'	Backhoe
BH23-19	2-4'	Backhoe
BH23-22	6-8'	Backhoe
BH23-32	1'	Backhoe
BH23-33	2'	Backhoe
BH23-35	2-4'	Backhoe
BH23-36	2-4'	Backhoe
BH23-37	2-4'	Backhoe
BH23-38	2-4'	Backhoe
BH23-39	2-4'	Backhoe
BG23-1	7-8'	Backhoe
BG23-2	8-9'	Backhoe

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.200.6167 or chensley@vertexresource.com.

VERSATILITY. EXPERTISE.



C4 3		
·	3/14/2025	
Chad Hensley	Date	

SENIOR PROJECT MANAGER, REPORT REVIEW

Attachments

Attachment 1 Closure Criteria Research

Attachment 2 Figures

Attachment 3 Daily Field Reports

Attachment 4 Laboratory Results Table and Laboratory Analysis

Attachment 5 Initial C-141 Report

VERSATILITY. EXPERTISE.

ATTACHMENT 1

Closure (Criteria Worksheet				
Site Nam	ne: LAGUNA SALADO 22 FEDERAL #004H				
Spill Coo	rdinates: 32.294426,-103.9730835				
Site Spec	cific Conditions	Value	Unit		
1	Depth to Groundwater	<50	feet		
2	Within 300 feet of any continuously flowing	15 724	feet		
2	watercourse or any other significant watercourse	15,734	reet		
3	Within 200 feet of any lakebed, sinkhole or playa lake	385	feet		
3	(measured from the ordinary high-water mark)	363	ieet		
4	Within 300 feet from an occupied residence, school,	19,430	feet		
4	hospital, institution or church	19,430	ieet		
	i) Within 500 feet of a spring or a private, domestic				
5	fresh water well used by less than five households for	19,430	feet		
5	domestic or stock watering purposes, or				
	ii) Within 1000 feet of any fresh water well or spring		feet		
	Within incorporated municipal boundaries or within a				
	defined municipal fresh water field covered under a				
6	municipal ordinance adopted pursuant to Section 3-27-	No	(Y/N)		
	3 NMSA 1978 as amended, unless the municipality				
	specifically approves				
7	Within 300 feet of a wetland	8,606	feet		
8	Within the area overlying a subsurface mine	No	(Y/N)		
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low		
10	Within a 100-year Floodplain	500	year		
11	Soil Type	Gravel	ly loam		
12	Ecological Classification	Sha	llow		
13	Geology	Qpl			
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'		



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

-	cioscuj			(4					6-50)	. 12 00 0 1101 111 111	(1015)	(111 10		
		POD		_	_	_									
DOD Marris and	C. 1.	Sub-	0		Q		G	T	D	v	•	D'-4D	41. XV - 11D 41		Water
POD Number C 02797	Code	CUB	County ED	64				1 ws 23S	_	X 596540	Y 3572895*	DistanceDep 656	tn WellDepti 200	n water C	olumn
											_				
<u>C 02716</u>		CUB	ED	4	4	4	16	23S	29E	595818	3574002*	988	400		
<u>C 02715</u>		CUB	ED	4	1	3	15	23S	29E	596221	3574411*	993	400		
C 02717		CUB	ED	4	2	4	16	23S	29E	595817	3574407*	1233	400		
C 01217 S		CUB	ED	4	1	4	16	23S	29E	595413	3574403*	1543	350		
C 02718		CUB	ED	4	4	2	16	23S	29E	595816	3574812*	1547	400		
C 04326 POD14		CUB	ED	4	2	3	23	23S	29E	598191	3572765	1687	58	54	4
C 04326 POD16		CUB	ED	2	4	3	23	23S	29E	598209	3572664	1751	64	54	10
C 02720		CUB	ED		2	1	21	23S	29E	594911	3573690*	1784	150		
C 02721		CUB	ED		2	3	21	23S	29E	594915	3572879*	1890	150		
C 02808		CUB	ED		2	3	16	23S	29E	594909	3574501*	2025	100		
C 02809		CUB	ED		2	3	16	23S	29E	594909	3574501*	2025	100		
C 02707		C	ED			2	28	23S	29E	595535	3571868*	2026	40	18	22
C 03057 EXPLORE		CUB	ED	4	1	1	21	23S	29E	594605	3573586*	2084	150		
C 02794		CUB	ED		4	3	10	23S	29E	596518	3575731*	2203	100		
C 02795		CUB	ED		4	3	10	23S	29E	596518	3575731*	2203	200		
C 02613		CUB	ED	4	4	2	20	23S	29E	594203	3573176*	2511	400		
C 03058 EXPLORE		CUB	ED	4	1	1	16	23S	29E	594605	3575206*	2671	150		

<u>C 01627</u>	C	ED	1 4	4 28	3 23S	29E	595649	3570959*	2777	170		
<u>C 02705</u>	C	ED		2 17	23S	29E	593902	3575093*	3193	68	28	40
<u>C 02608</u>	CUB	ED	3 1	4 17	23S	29E	593598	3574387*	3206	400		
<u>C 04597 POD1</u>	CUB	ED	1 1	4 24	23S	29E	600124	3573002	3476			
<u>C 04597 POD2</u>	CUB	ED	1 1	4 24	23S	29E	600122	3572959 🌍	3481			
<u>C 04597 POD4</u>	CUB	ED	1 1	4 24	23S	29E	600159	3572947	3519			
<u>C 04597 POD3</u>	CUB	ED	1 1	4 24	23S	29E	600172	3572991	3524			
C 04597 POD5	CUB	ED	2 1	4 24	23S	29E	600198	3572931	3560			
C 03059 EXPLORE	CUB	ED	4 1	3 17	23S	29E	592993	3574378*	3790		65	
<u>C 02806</u>	CUB	ED	1	1 09	23S	29E	594473	3576927*	4052	100		
<u>C 02807</u>	CUB	ED	1	1 09	23S	29E	594473	3576927*	4052	100		
<u>C 04472 POD1</u>	CUB	ED	2 2	4 13	3 23S	29E	600639	3574619	4096		37	
<u>C 02792</u>	CUB	ED	4	3 04	23S	29E	594868	3577336*	4215	200		
<u>C 02793</u>	CUB	ED	4	3 04	23S	29E	594868	3577336*	4215	100		
<u>C 04594 POD2</u>	CUB	ED	4 2	2 13	3 23S	29E	600604	3575232	4267	42	34	8
<u>C 04594 POD5</u>	CUB	ED	4 2	2 13	3 23S	29E	600626	3575236	4289	30	30	0
<u>C 04594 POD1</u>	CUB	ED	4 2	2 13	3 23S	29E	600629	3575241	4294	36	31	5
<u>C 04594 POD7</u>	CUB	ED	4 2	2 13	3 23S	29E	600659	3575217	4311	34	28	6
<u>C 04594 POD6</u>	CUB	ED	4 2	2 13	3 23S	29E	600659	3575220	4313	34	28	6
<u>C 04594 POD3</u>	CUB	ED	4 2	2 13	3 23S	29E	600645	3575280	4324	38	27	11
<u>C 03587 POD1</u>	CUB	ED	1 4	3 29	23S	29E	593338	3570754	4353	99	44	55
<u>C 04594 POD4</u>	CUB	ED	4 2	2 13	3 23S	29E	600704	3575224	4356	45	28	17
<u>C 02706</u>	C	ED		4 18	3 23S	29E	592302	3574291*	4451	17	10	7
<u>C 03587 POD2</u>	CUB	ED	1 2	4 19	23S	29E	592213	3572706	4551	77	16	61
<u>C 02486</u>	С	ED	3 2	3 19	23S	30E	601304	3572832*	4668	350		
<u>C 02804</u>	CUB	ED	2	1 08	3 23S	29E	593262	3576905*	4806	100		

C 02805

CUB

ED

2 1 08 23S 29E

593262 3576905*

4806

100

Average Depth to Water:

33 feet

Minimum Depth:

10 feet

Maximum Depth:

65 feet

Record Count: 45

UTMNAD83 Radius Search (in meters):

Easting (X): 596688.75

Northing (Y): 3573534.32

Radius: 5000

*UTM location was derived from PLSS - see Help

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

3/21/23 8:21 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4
 Sec
 Tws
 Rng
 X
 Y

 NA
 C 04326 POD14
 4 2 3 23 23 238 29E
 598191 3572765

Driller License: 1664 **Driller Company:** CASCADE DRILLING, LP

Driller Name: CAIN, SHAWN N.NJR.L.NER

Log File Date: 08/28/2019 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 2.06 Depth Well: 58 feet Depth Water: 54 feet

Water Bearing Stratifications: Top Bottom Description
45 54 Shale/Mudstone/Siltstone

Casing Perforations: Top Bottom
48 58

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

3/21/23 3:47 PM

POINT OF DIVERSION SUMMARY



							<u> </u>							
	OSE POD NO	(WELL NO	1)	•	WELL TAG II	O NO		OSE FILE NO	S).					
N N	POD 14				BH 14			C-4326						
 	WELL OWN	ER NAME(S)					PHONE (OPTI	ONAL)					
Ö	XTO Ener	gy, Inc.						432-221-73	31					
17	WELL OWN	ER MAILING	ADDRESS					CITY		STATE		ZIP		
VEL	522 W Me	rmond, Si	iite 704					Carlsbad	NM	88220				
ě			DI	GREES	MINUTES	SECO	ONDS	1						
 	LOCATIO	NN		32	17		l.49 N	* ACCURACY	REQUIRED ONE TEN	TH OF A SE	COND			
₹	(FROM GI	PS) U.S.	TITUDE	103	57	25	i.95 W	* DATUM RE	QUIRED: WGS 84					
GENERAL AND WELL LOCATION		ro	NGITUDE						-					
1. G			NG WELL LOCATION TO If South West Quart								LABLE			
<u> </u>	LICENSE NO	<u> </u>	NAME OF LICENSED	DRILLER					NAME OF WELL DR	(LLING CO	MPANV			
	160			Danoesk	Shawn Ca	in				ascade Dr				
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF CO	MPLETED WEI	L (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUR	NTERED (FT)	<u></u>		
	5/11/2	2019	5/11/2019		58	, ,		58		54	, ,			
	601 171 177					ALLOW (UNC			STATIC WATER LEV	EL IN COM	IPLETED WE	ill (FT)		
Z	COMPLETE	D WELL IS:	ARTESIAN	DRY HOL			48							
CASING INFORMATION	DRILLING F	LUID:	✓ AIR	MUD	ADI	DITIVES - SPE	ECIFY							
JRM	DRILLING N	TETHOD	ROTARY	НАММЕЯ	CAE	LE TOOL	✓ OTHE	R – SPECIFY.		Sonic				
N.F.	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL	AND/OR	C	ASING	CASING	CASIN	G WALL	SLOT		
Ğ.	FROM	то	DIAM	(*b. 4.	GRADE	,	,	NECTION	INSIDE DIAM.		KNESS	SIZE		
\SI			(inches)		each casing st sections of sci			YPE ling diameter)	(inches)	(in	ches)	(inches)		
ر در	0	58	6				,					<u> </u>		
چ	0	48		1	2" PVC Blank		Flush Th	read SCH 40	2.067	.1	54"			
DRILLING &	48	58		2	" PVC Screer	1	Flush Th	read SCH 40	2.067	.1	54"	.020		
INC								·			· · · ·			
2.1											===			
											<.03			
												1:		
											· y · · ·			
											ं			
				<u>_</u> .					<u></u> .	<u> </u>	· · •	<u> </u>		
	DEPTH	(feet bgl)	BORE HOLE	LI	ST ANNULA	R SEAL M	ATERIAL A	AND	AMOUNT		-МЕТНО	D OF		
ΙΑΕ	FROM	то	DIAM. (inches)	GRA	E BY INTE	RVAL	(cubic feet)		PLACEN	/ENT				
ER	0	2	6			Concrete			.5		Pour	ed		
(A)	2 45 6 Bentonite Chips								7.5		Pour	ed		
N. N.	45	58	6			12-20 Sand			2.5		Pour	ed		
ANNULAR MATERIAL														
Z														
3. ≜														
F09	OCE BITED													

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

FILE NO.

LOCATION

	DEPTH (f	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING							
				(attack supplemental success to tally describe an units)		ZONES (gpm)							
	0	4	4	Open Excavation	Y ✓ N	i							
	4	10	6	brown-tan clayey SAND	Y √ N								
	10	20	10	pinkish-tan silty SAND	Y ✓N								
	20	45	25	off white-tan CALICHE	Y VN								
	45	54	9	gray-light green DOLOMITE	✓ Y N								
Ţ	54	58	4	dark gray-light gray CLAY	Y ✓N								
4. HYDROGEOLOGIC LOG OF WELL		У											
OF		Y N											
90		Y N											
101		Y N											
907					Y N								
EO					Y N								
ROC					Y N								
ахн					Y N								
4.]					Y N								
		:			Y N								
	i				Y N								
		•			Y N								
·		·			Y N								
i			l		Y N								
	 		<u> </u>		Y N								
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED								
	Примі	р Па	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	0.00							
NOI	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVI									
(NIS)	MISCELLA	NEOUS INI	ORMATION:										
TEST; RIG SUPERVIS													
ા છ													
: RI						5							
rest	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER T	HAN LICENSEE:							
.s.						• •							
SIGNATURE	BY SIGNIN RECORD OF WELL RECO	G BELOW F THE ABO ORD WILL	, I CERTIFY TH OVE DESCRIBED ALSO BE FILED	AT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOR WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HA WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPI	REGOING IS A TRUE AS BEEN INSTALLED A LETION OF WELL DRII	AND CORRECT: AND THAT THIS ?? LING.							
NA		11		<u> </u>	.	_							
		Sh	<u>ر (· </u>	Shawn Cain	8-23-	19							
.9		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE								
FOI	FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/2019)												

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 2 OF 2

FILE NO.

LOCATION



Click to hideNews Bulletins

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

Water Quality Samples for the Nation

To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.

Additional precautions are **here**.

USGS 321742103552601 23S.30E.19.123421

Water-Quality: Field/Lab samples

✓ GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°17'42", Longitude 103°55'26" NAD27

Land-surface elevation 3,034 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aguifer.

Output formats

Parameter Group Period of Record table

Inventory of available water-quality data for printing

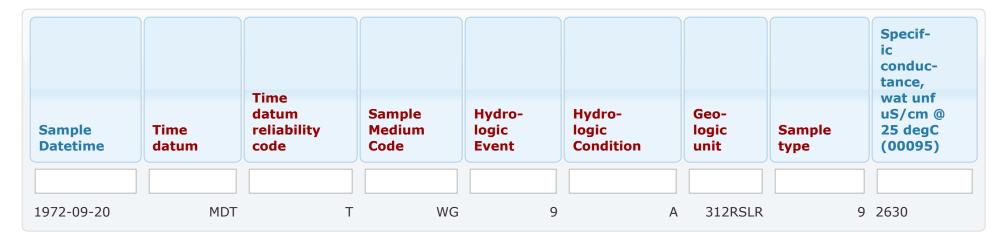
Inventory of water-quality data with retrieval

Tab-separated data, one result per row

Tab-separated data one sample per row with remark codes combined with values

Tab-separated data one sample per row with tab-delimiter for remark codes

Reselect output format



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

Accessibility FOIA Policies and Notices Privacy

U.S. Department of the Interior | U.S. Geological Survey

Title: Water Quality Samples for USA: Sample Data URL: https://nwis.waterdata.usgs.gov/nwis/qwdata?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2023-09-21 09:41:11 EDT

0.45 0.39 nadww02





LagunaSalado22Fed4 River 2.98 Miles



March 21, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

L

Lake

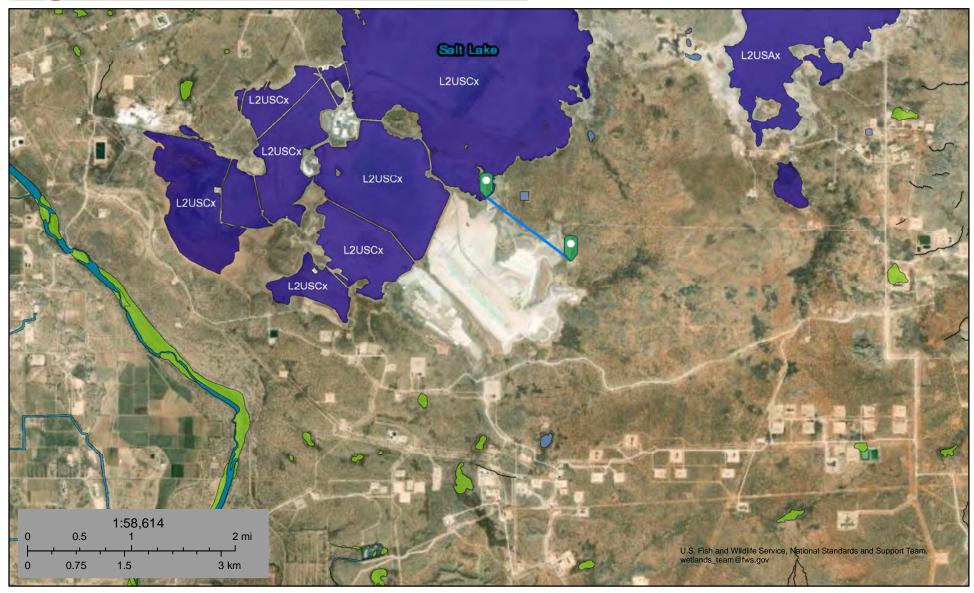
Freshwater Forested/Shrub Wetland

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.

Laguna Salado 22 Fed 4 Lake 0.86 Miles



March 21, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

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.

This map is for general reference only. The US Fish and Wildlife



Laguna Salado 22 Federal #004H Playa 0.



September 19, 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.



Laguna Salado 22 Federal #004H Playa 0.1 miles



September 19, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

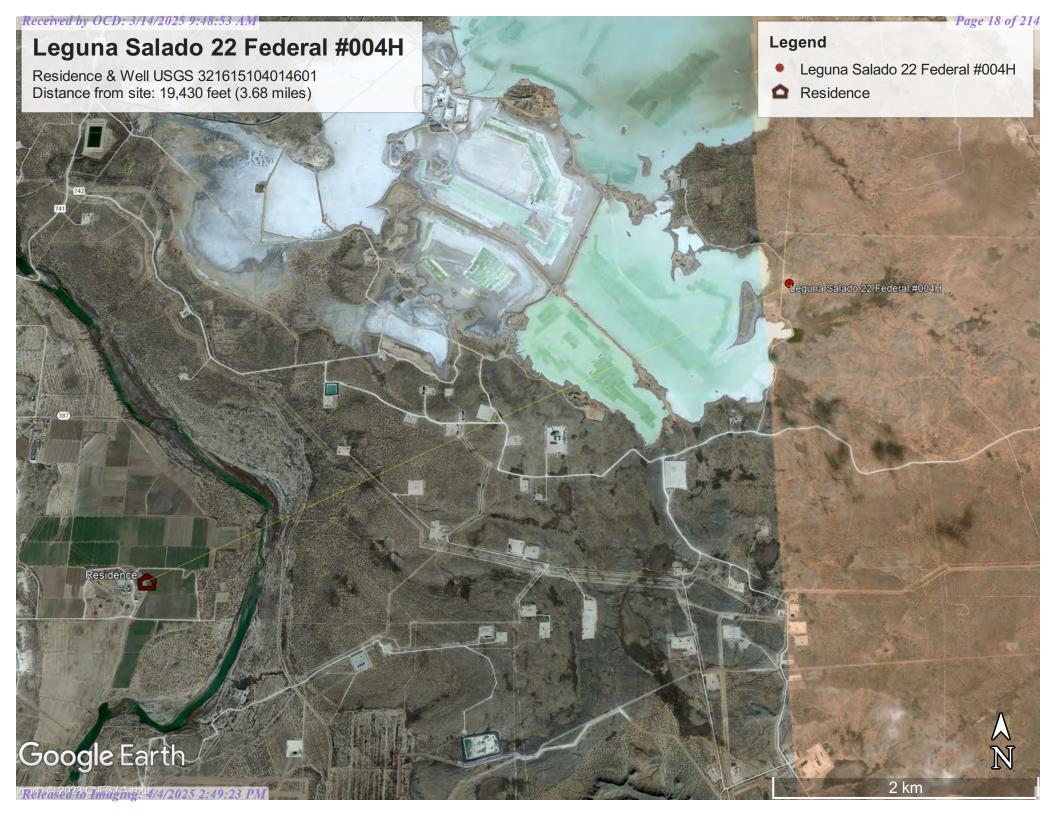
Freshwater Pond

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.





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	•	United States	~	GO

Click to hideNews Bulletins

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

USGS 321615104014601 23S.29E.30.331322

Available data for this site SUMMARY OF ALL AVAILABLE DATA ▼ GO

Well Site

DESCRIPTION:

Latitude 32°16'15", Longitude 104°01'46" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 89 feet

Land surface altitude: 2,962 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

(110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1954-11-08	1954-11-08	1
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms

<u>Subscribe for system changes</u> <u>News</u>

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321615104014601

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2023-03-21 17:57:26 EDT

0.31 0.29 caww01





New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

	Sub	(acre ft per	annum)			Well	(R=POD has been replaced and no longer serves this file, C=the file is closed)		rs are 1=N rs are sma			=SW 4=SE) est)	(NAD	83 UTM in me
WR File Nbr <u>C 02797</u>		Use Dive	ersion Owner 0 IMC	County ED	POD Number <u>C 02797</u>	Tag	Code Grant	Source	6416 4 2 3				X 596540	Y 3572895*
<u>C 02716</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02716</u>				4 4 4	16	23S	29E	595818	3574002*
<u>C 02715</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02715</u>				4 1 3	15	23S	29E	596221	3574411*
<u>C 04326</u>	CUB	MON	0 LT ENVIRONMENTAL INC	ED	C 04326 POD49	NA			2 4 3	23	23S	29E	597378	3572591
<u>C 02717</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02717</u>				4 2 4	16	23S	29E	595817	3574407*
<u>C 04326</u>	CUB	MON	0 XTO ENERGY INC	ED	C 04326 POD50	NA			3 2 3	23	23S	29E	597992	3572782
				ED	C 04326 POD51				3 2 3	23	23S	29E	598034	3572817
				ED	C 04326 POD1				1 2 3	23	23S	29E	598124	3572992
<u>C 01217</u>	CUB	COM	150 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED	<u>C 01217 S</u>			Shallow	4 1 4	16	23S	29E	595413	3574403*
<u>C 02622</u>	CUB	COM	0 UNITED SALT CORPORATION	ED	C 01217 S			Shallow	4 1 4	16	23S	29E	595413	3574403*
<u>C 02718</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02718</u>				4 4 2	16	23S	29E	595816	3574812*
<u>C 04326</u>	CUB	MON	0 XTO ENERGY INC	ED	C 04326 POD8	NA			3 2 3	23	23S	29E	598097	3572884
				ED	C 04326 POD6				1 2 3	23	23S	29E	598125	3572940
				ED	C 04326 POD44				3 2 3	23	23S	29E	598050	3572781
				ED	<u>C 04326 POD4</u>				1 2 3	23	23S	29E	598135	3572962
				ED	C 04326 POD2				1 2 3	23	23S	29E	598156	3572980
				ED	C 04326 POD43				2 3	23	23S	29E	598153	3572971
				ED	C 04326 POD3				1 2 3	23	23S	29E	598156	3572962
				ED	C 04326 POD45				3 2 3	23	23S	29E	598095	3572822
				ED	C 04326 POD9				3 2 3	23	23S	29E	598136	3572873
				ED	C 04326 POD5				2 2 3	23	23S	29E	598169	3572940
				ED	C 04326 POD40				2 3	23	23S	29E	598114	3572815
<u>C 04456</u>	CUB	MON	0 XTO ENERGY INC	ED	C 04456 POD2	NA			3 2 3	23	23S	29E	598103	3572791
<u>C 04326</u>	CUB	MON	0 XTO ENERGY INC	ED	C 04326 POD41	NA			2 3	23	23S	29E	598097	3572775
				ED	<u>C 04326 POD7</u>				3 2 3	23	23S	29E	598157	3572894

Record Count: 25

UTMNAD83 Radius Search (in meters):

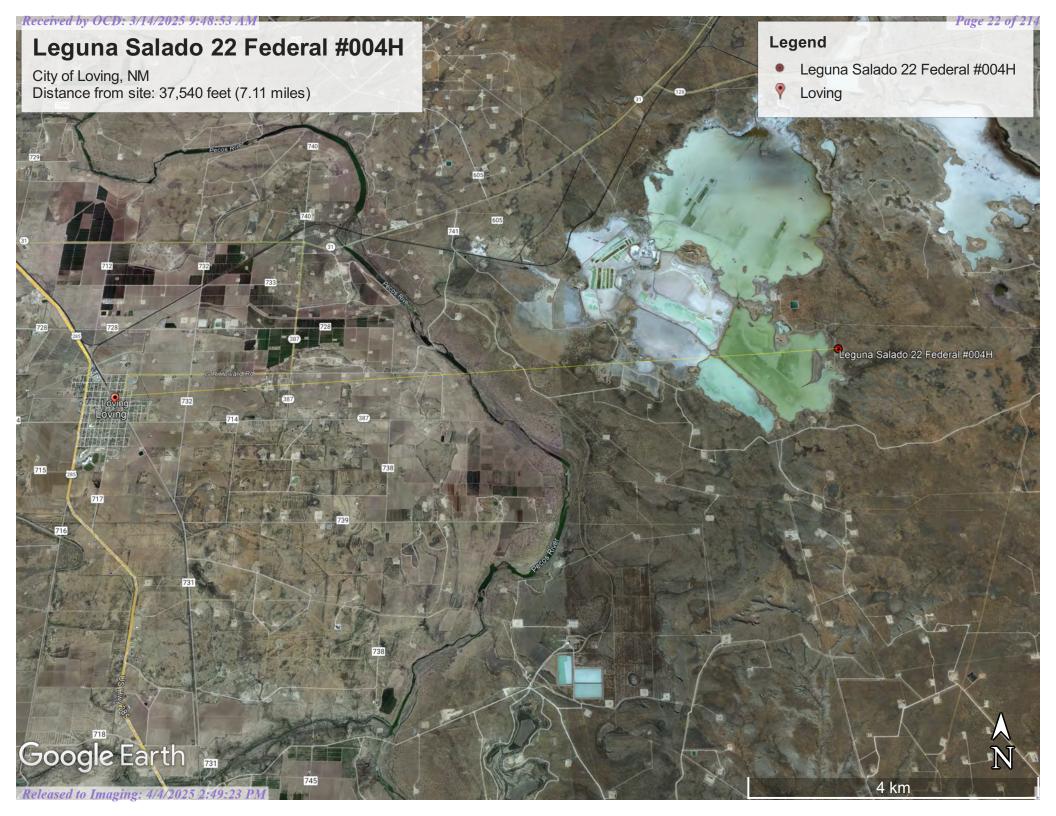
Easting (X): 596688 Northing (Y): 3573534 Radius: 1610

Sorted by: Distance

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

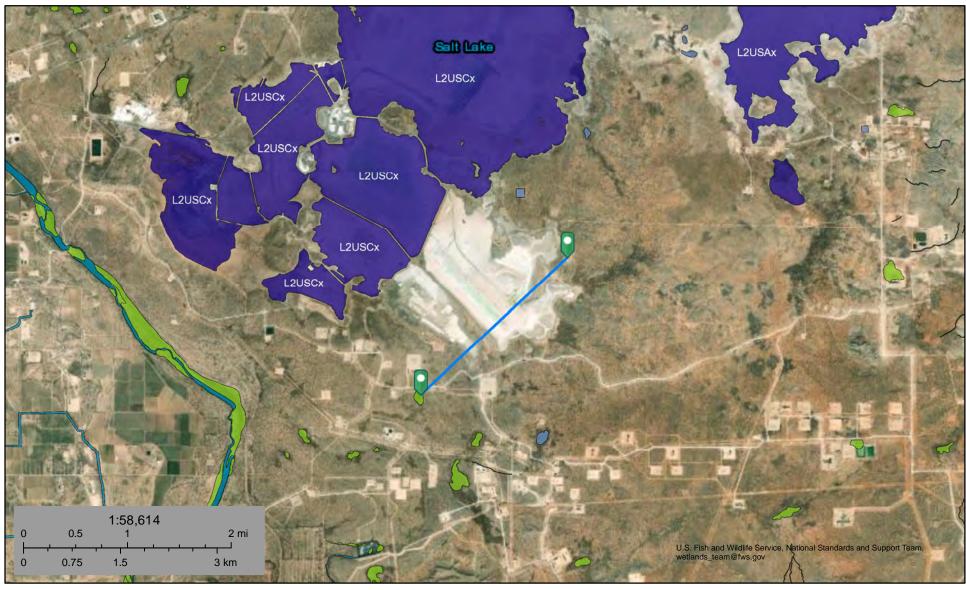
3/29/23 10:07 AM ACTIVE & INACTIVE POINTS OF D

^{*}UTM location was derived from PLSS - see Help





LagunaSalado22Fed4 Wetland 1.63 Miles



March 21, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

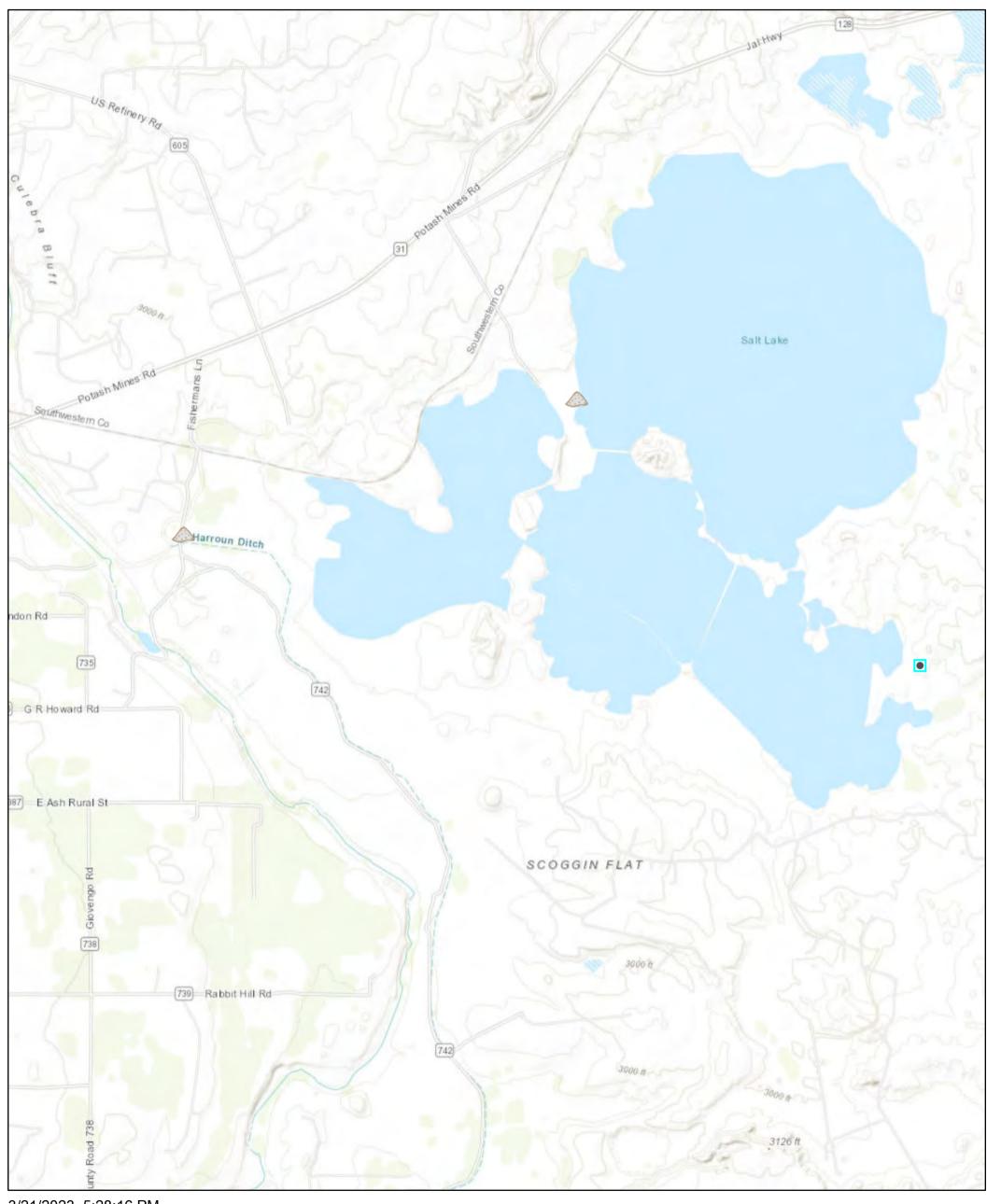
Lake

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.

Leguna Salado 22 Fed 4H



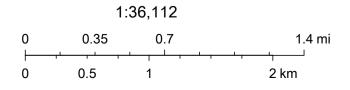
3/21/2023, 5:28:16 PM

Registered Mines

* Aggregate, Stone etc.

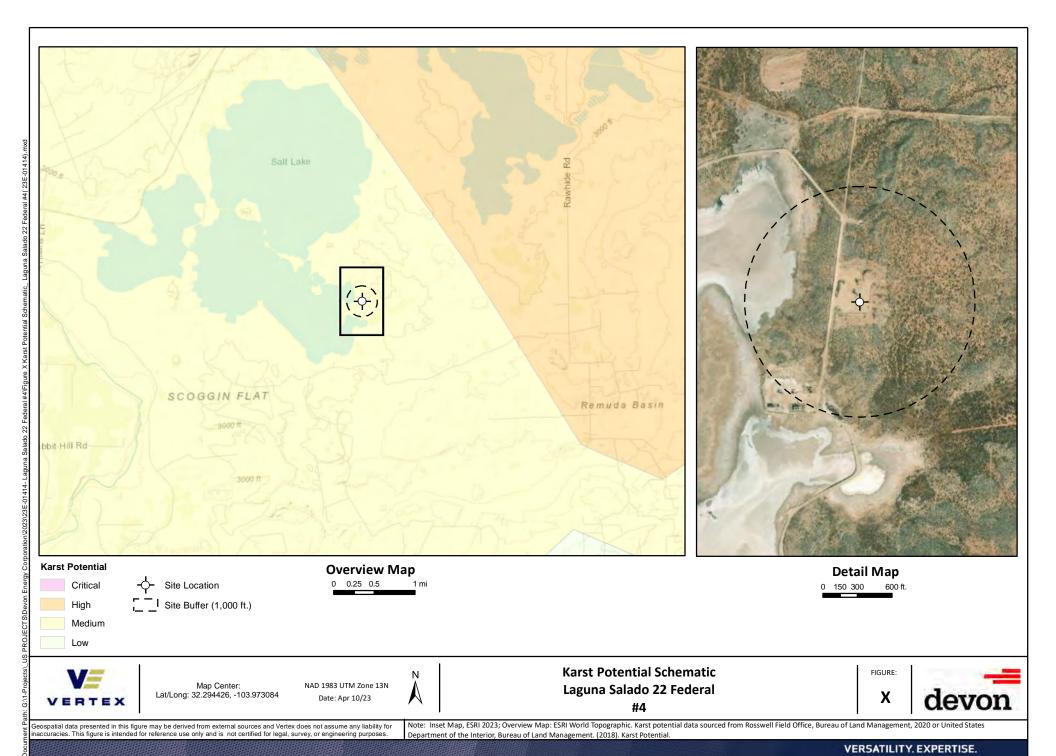


Salt



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

Received by OCD: 3/14/2025 9:48:53 AM



OReleas 240 Imaging: 4/4/2025 2:409:23 PM

Received by OCD: 3/14/2025 9:48:53,AM National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary -- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available

> 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

Unmapped

an authoritative property location.

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

MAP PANELS

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/21/2023 at 1:35 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





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



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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map	
Legend	
Map Unit Legend	
Map Unit Descriptions	
Eddy Area, New Mexico	
UG—Upton gravelly loam, 0 to 9 percent slopes	
References	

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

Custom Soil Resource Report

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

Custom Soil Resource Report

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.



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(O)

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

×

Gravel Pit

...

Gravelly Spot

0

Landfill Lava Flow

٨

Marsh or swamp

Mine or Quarry

9

Miscellaneous Water
Perennial Water

0

Rock Outcrop

+

Saline Spot

...

Sandy Spot

. .

Severely Eroded Spot

_

Sinkhole

6

Slide or Slip

Ø

Sodic Spot

שאב

8

Spoil Area Stony Spot

٥

Very Stony Spot

Ø

Wet Spot Other

Δ

Special Line Features

Water Features

_

Streams and Canals

Transportation

ansp

Rails

~

Interstate Highways

~

US Routes

Major Roads Local Roads

 \sim

Background

100

Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI					
UG Upton gravelly loam, 0 to 9 percent slopes		4.4	100.0%					
Totals for Area of Interest		4.4	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

UG—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w64 Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 15 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent *Minor components:* 4 percent

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

Description of Upton

Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

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

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam H2 - 9 to 13 inches: gravelly loam H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

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

(0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



Ecological site R070BC025NM Shallow

Accessed: 03/23/2023

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 knolls, ridges, hillslopes alluvial fans and escarpments. Slopes range fro 0 to 25 percent and average about 7 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Hill (2) Ridge (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	0–25%
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 180 to 220 days. The last killing frost is late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at a critical time for cool season plant growth.

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

Table 3. Representative climatic features

Frost-free period (average)	220 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

The soils of this site are shallow to very shallow. Soils are derived from mixed calcareous eolian deposits derived from sedimentary rock. Surface layers are very cobbly loam, very gravelly loam, gravelly loam, cobbly loam, gravelly fine sandy loam or gravelly sandy loam.

There is an indurated caliche layer or limestone bedrock that occurs within 20 inches and averages less than 10 inches. Limestone or caliche layer may be the restrictive layer.

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

Characteristic soils:

Lozier

Potter

Tencee

Upton

Ector

Kimbrough

Table 4. Representative soil features

Surface texture	(1) Gravelly loam(2) Extremely gravelly loam(3) Extremely cobbly loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Very slow to moderately slow
Soil depth	4–20 in
Surface fragment cover <=3"	15–40%
Available water capacity (0-40in)	1 in
Calcium carbonate equivalent (0-40in)	15–60%

Electrical conductivity (0-40in)	0–2 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	13–42%
Subsurface fragment volume >3" (Depth not specified)	0–1%

Ecological dynamics

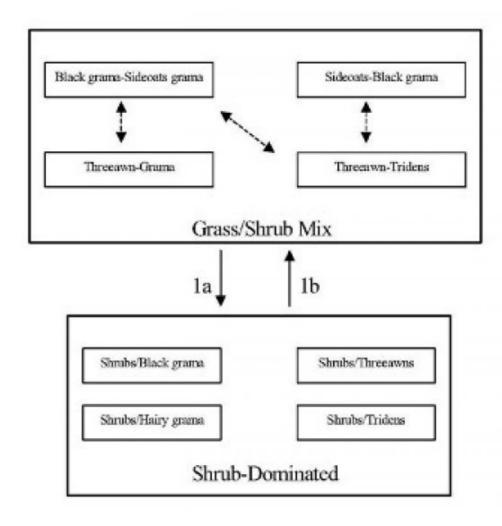
Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrubdominated state. 1

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Shallow



Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

State 1 Grass/Shrub Mix

Community 1.1 Grass/Shrub Mix

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the sub-dominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be

an important component in the cause of this transition. Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	168	352	536
Shrub/Vine	63	131	200
Forb	20	42	64
Total	251	525	800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	5-10%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	5-8%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-60%

Figure 5. Plant community growth curve (percent production by month). NM2825, R042XC025NM Shallow HCPC. R042XC025NM Shallow HCPC 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 Shrub-Dominated

Community 2.1 Shrub-Dominated

Shrub-Dominated: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. 2 Diagnosis: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging

from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces. Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.3 Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion. Key indicators of approach to transition: *Decrease or change in composition or distribution of grass cover. *Increase in size and frequency of bare patches. *Increase in amount of shrub seedlings. Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, periodic use of prescribed fire may assist in maintaining the Grassland/Shrub state.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike	•		•	
1				105–158	
	black grama	BOER4	Bouteloua eriopoda	105–158	_
2		•		79–105	
	sideoats grama	BOCU	Bouteloua curtipendula	79–105	_
3		•		79–105	
	blue grama	BOGR2	Bouteloua gracilis	79–105	_
	hairy grama	BOHI2	Bouteloua hirsuta	79–105	_
4		•		26–53	
	bush muhly	MUPO2	Muhlenbergia porteri	26–53	_
5		•		16–26	
	cane bluestem	BOBA3	Bothriochloa barbinodis	16–26	_
6		•		26–53	
	sand dropseed	SPCR	Sporobolus cryptandrus	26–53	_
7				16–26	
	hairy woollygrass	ERPI5	Erioneuron pilosum	16–26	_
8				5–16	
	ear muhly	MUAR	Muhlenbergia arenacea	5–16	_
9		•		5–16	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	5–16	_
10		•		5–16	
	low woollygrass	DAPU7	Dasyochloa pulchella	5–16	_
11				16–26	
	Grass, perennial	2GP	Grass, perennial	16–26	_
Forb				•	
12				11–26	
	stemless four-nerve daisy	TEACE	Tetraneuris acaulis var. epunctata	11–26	_
13		l .	1	5–16	
	woolly groundsel	PACA15	Packera cana	5–16	_

14	1			o-10	
	globemallow	SPHAE	Sphaeralcea	5–16	_
15				5–16	
	bladderpod	LESQU	Lesquerella	5–16	_
16				5–16	
	cassia	CASSI	Cassia	5–16	_
17				11–26	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	11–26	_
Shru	ıb/Vine				
18				5–16	
	littleleaf sumac	RHMI3	Rhus microphylla	5–16	_
19		•		5–16	
	creosote bush	LATR2	Larrea tridentata	5–16	_
20				5–16	
	littleleaf ratany	KRER	Krameria erecta	5–16	
21				5–16	
	javelina bush	COER5	Condalia ericoides	5–16	_
22				5–16	
	American tarwort	FLCE	Flourensia cernua	5–16	
23				5–16	
	crown of thorns	KOSP	Koeberlinia spinosa	5–16	
24				11–26	
	honey mesquite	PRGL2	Prosopis glandulosa	11–26	_
	honey mesquite	PRGL2	Prosopis glandulosa	11–26	_
25				5–16	
	catclaw mimosa	MIACB	Mimosa aculeaticarpa var. biuncifera	5–16	_
26		•		5–16	
	pricklypear	OPUNT	Opuntia	5–16	_
27			!	11–26	
	mariola	PAIN2	Parthenium incanum	11–26	_
	mariola	PAIN2	Parthenium incanum	11–26	_
28		1	ı	5–16	
	broom snakeweed	GUSA2	Gutierrezia sarothrae	5–16	_
29		1	<u> </u>	16–26	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	16–26	_

Animal community

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, marbled whiptail, and greater earless lizard. Where associated with limestone hills, mule deer utilize this site.

Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and

Swainson's hawk nest.

Hydrological functions

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

Recreational uses

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

Wood products

This site has no potential for wood production.

Other products

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush, catclaw, and mesquite. This site will respond best to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index------ Ac/AUM 100 - 76------ 3.7 - 4.5 75 - 51------ 4.3 - 5.5 50 - 26------ 5.3 - 10.0 25 - 0------ 10.1 +

Inventory data 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 (SD-3). This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

1. Humphrey, R.R. 1974. Fire in the deserts and desert grassland of North America. In: Kozlowski, T. T.; Ahlgren, C. E., eds. Fire and ecosystems. New York: Academic Press: 365-400.

- 2. Hennessy, J.T., R.P. Gibbens, J.M. Tromble, and M. Cardenas. 1983. Water properties of caliche. J. Range Manage. 36: 723-726.
- 3. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheets. Rangeland Soil Quality—Infiltration, Organic Matter, Rangeland Sheets 5,6. [Online]. Available: http://www.statlab.iastate.edu/survey/SQI/range.html

Contributors

David Trujillo Don Sylvester

Rangeland health reference sheet

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

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

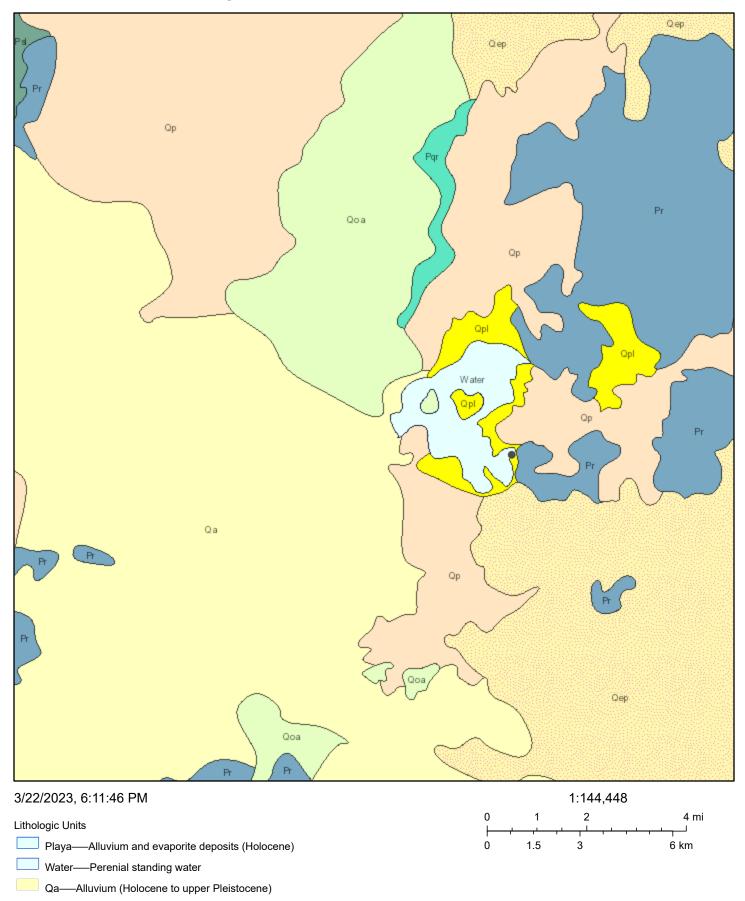
Indicators

indicators		
1.	Number and extent of rills:	
2.	Presence of water flow patterns:	
3.	Number and height of erosional pedestals or terracettes:	
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):	
5.	Number of gullies and erosion associated with gullies:	
6.	Extent of wind scoured, blowouts and/or depositional areas:	

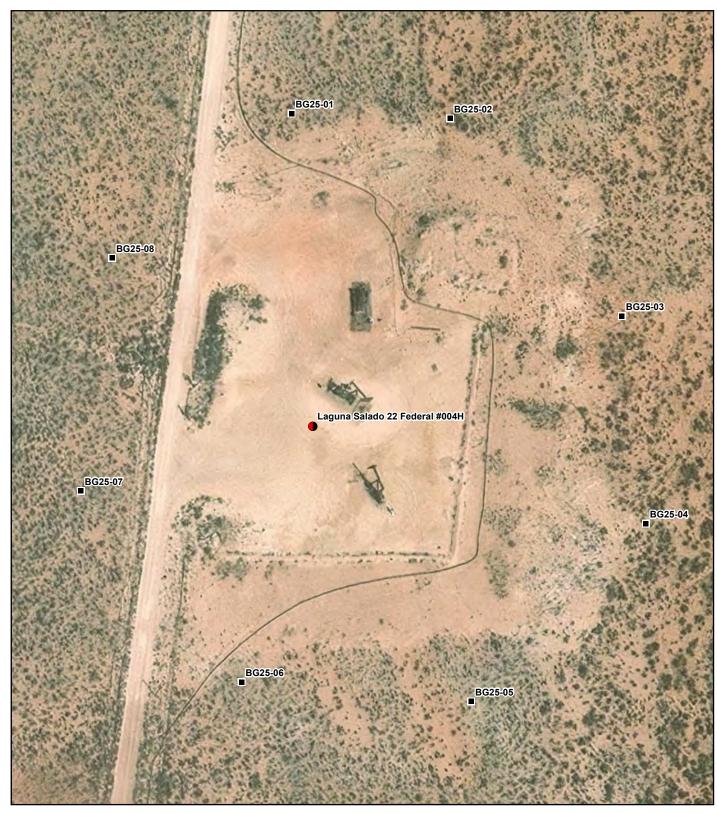
7. Amount of litter movement (describe size and distance expected to travel):

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):			
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):			
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:			
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):			
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):			
	Dominant:			
	Sub-dominant:			
	Other:			
	Additional:			
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):			
14.	Average percent litter cover (%) and depth (in):			
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):			
16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:			
17.	Perennial plant reproductive capability:			

Laguna Salado 22 Federal #004H



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



- **Background Samples**
- Laguna Salado 22 Federal #004H



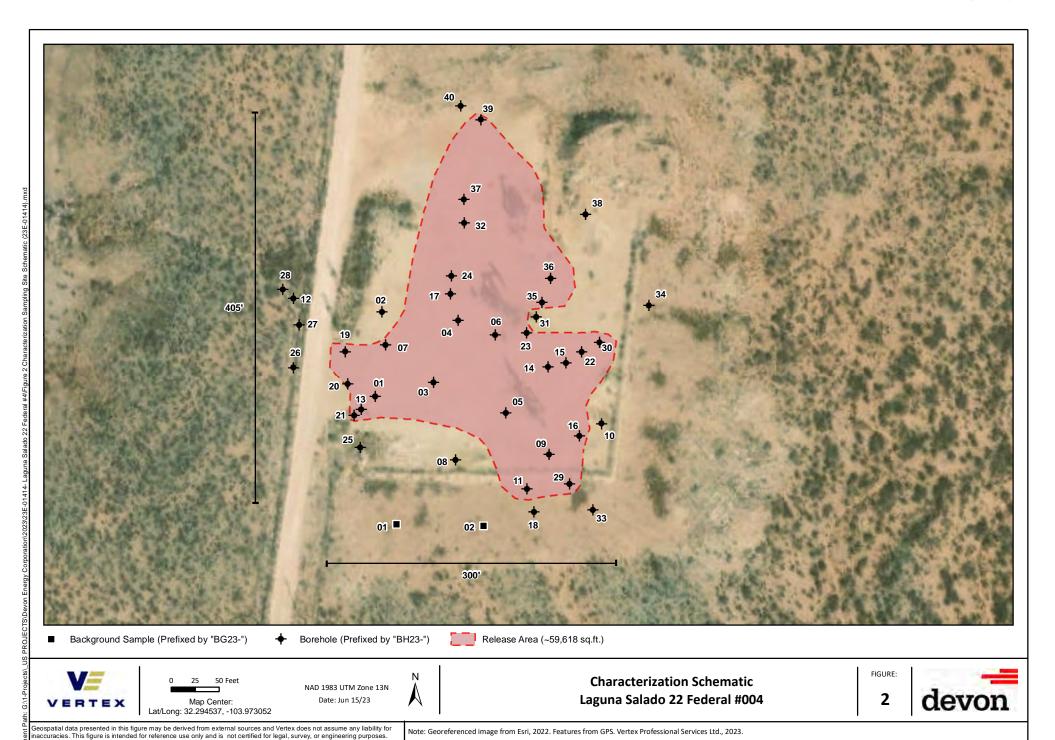


Map Center: Lat: 32.294584°N, Long:103.973081°W



Background Characterization Laguna Salado 22 Federal #004H devon

VERSATILITY. EXPERTISE.



ATTACHMENT 3

Departed Site

Daily Site Visit Report

3/23/2023 2:40 PM



Client:	Devon Energy Corporation	Inspection Date:	3/23/2023	
Site Location Name:	Laguna Salado 22 Fed 4	Report Run Date:	3/23/2023 8:34 PM	
Client Contact Name:	Dale Woodall	API #:		
Client Contact Phone #:	405-318-4697	_		
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	3/23/2023 7:50 AM			



Site Sketch

Site Sketch



Field Notes

12:21 Arrived on site and filled out safety documents. Discussed work plan for the day and safety and signed safety documents. 08:15

Walked site, observing One Call markings of lines and investigating any evidence of release within and outside One Call area and in reference to C141.

No evidence was observable on site and delineation in a grid pattern was decided. 08:30

12:25 Collected sample BH23-01 at 0 ft and 1 ft, hitting refusal at 1 ft. 09:40 Soil is extremely rocky and compacted.

Collected sample BH23-02 at 0 ft and 1 ft, hitting refusal at 1 ft. 10:20 Soil is extremely rocky and compacted

Collected sample BH23-03 at 0 ft and 1 ft, hitting refusal at 1 ft. 10:55 Soil is extremely rocky and compacted

Collected sample BH23-04 at 0 ft and 1 ft, hitting refusal at 1 ft. 11:40 Soil is extremely rocky and compacted

14:15 Collected sample BH23-05 at 0 ft and 1 ft, hitting refusal at 1 ft. 12:30 Soil is extremely rocky and compacted

Collected sample BH23-06 at 0 ft and 1 ft, hitting refusal at 1 ft. 13:00 Soil is extremely rocky and compacted

Collected sample BH23-07 at 0 ft and 1 ft, hitting refusal at 1 ft. 14:00 Soil is extremely rocky and compacted

- 14:30 S. Carttar began field screen on samples BH23-01 through BH23-07. 14:15
- 14:30 S. Carttar prepared samples for lab. 15:30
- 14:31 Completed daily field report and S. Carttar completed daily soil sample report. 16:00.



Next Steps & Recommendations

1 Continue with delineation.



Site Photos

Viewing Direction: Northeast



BH23-01 01 ft Hit refusal at 1ft.



BH23-03 01ft, Hit Refusal at 1ft.

Viewing Direction: Northeast



BH23-02 01ft Hit refusal at 1 ft.

Viewing Direction: Northeast



BH23-04 1ft, Hit refusal at 1ft.





BH23-05 01ft



BH23-06 01ft, Hit refusal at 1ft.



BH23-07 01ft Hit refusal at 1ft.



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:



Client:	Devon Energy Corporation	Inspection Date:	3/24/2023
Site Location Name:	Laguna Salado 22 Fed 4	Report Run Date:	3/24/2023 9:15 PM
Client Contact Name:	Dale Woodall	API #:	
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times			
Arrived at Site	3/24/2023 8:30 AM		
Departed Site	3/24/2023 1:45 PM		

Field Notes

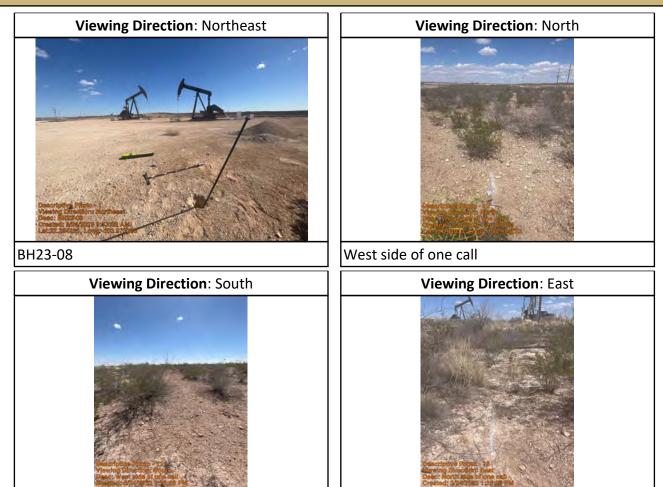
- 9:22 On site. Completed safety meeting, confirmed one call area. Running secondary sweep before beginning collection of BH23-08
- 10:05 Ran secondary sweep. Beginning BH23-09
- 10:33 Ran line sweep, beginning BH23-10
- 13:15 Extending white lined area to include more of pad and surrounding area
- 13:15 Screened all samples and prepared them for lab

Next Steps & Recommendations

1 Complete horizontal and vertical delineation



Site Photos



North side of one call

West side of one call







BH23-09

Descriptive Photo - &
- Street Street
- Created: 324/2023 1:1841 PM
Lt:32.294453, Long: 85.572770

Site

Viewing Direction: West



Site









BH23-10

South side of new one-call





Powered by www.krinkleldar.com Page 4 of 5

Run on 3/24/2023 9:15 PM UTC



Daily Site Visit Signature

Inspector: Sally Carttar

Signature:



Client:	Devon Energy Corporation	Inspection Date:	4/5/2023
Site Location Name:	Laguna Salado 22 Fed 4	Report Run Date:	4/5/2023 9:55 PM
Client Contact Name:	Dale Woodall	API #:	
Client Contact Phone #:	405-318-4697		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			

Arrived at Site 4/5/2023 8:15 AM

Departed Site 4/5/2023 4:00 PM

Field Notes

- **8:53** Arrived on site and filled out and signed safety documents. Prepared equipment and swept proposed sample point areas with magnetic locator.
- 11:20 Collected samples BH23-11 0 ' and 2', hitting refusal at 3.75'. (32.294095,-103.973061)

Collected samples BH23-12 0', 2' and 3'. (32.294648,-103.973843)

- 11:21 Performed line sweep for area around proposed BH23-13 with magnetic locator.
- 11:38 Collected samples BH23-13 0', 1', 2'.
- **13:28** Field screened samples BH23-11 0', 2'; BH23-12 0', 2', 3'; BH23-13 0', 1', 2' for chlorides with EC meter.
- **14:56** Performed line sweep with magnetic locator for BH23-14 area. Collected samples BH23-14 0' and 1'. Hitting refusal at 1.25'

concetted samples Brizo 14 0 and 1. Thethig reliasar at 1.25

Field screened BH23-14 0' and 1' for chlorides with EC meter.

- 15:39 Field screened samples BH23-11 0'; BH23-12 0'; BH23-13 0'; and BH23-14 0' for THP with Dexsil Petroflag.
- **15:44** Field screened all samples collected for VOCs with PID.



15:51 Completed daily field report and daily soil sampling report

Next Steps & Recommendations

1 Continue delineating



Site Photos



BH23-11 Oft-2ft



Viewing Direction: East

Discription Florida 2 - Vigoria Direction 2 - Vigoria Direction

BH23-12 Oft-3ft



BH23-14 Oft - 1ft







Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	4/20/2023					
Site Location Name:	Laguna Salado 22 Fed 4	Report Run Date:	4/21/2023 8:50 PM					
Client Contact Name:	Dale Woodall	API #:						
Client Contact Phone #:	405-318-4697							
Unique Project ID		Project Owner:						
Project Reference #		Project Manager:						
	Summary of Times							
Arrived at Site	4/20/2023 8:00 AM							

Field Notes

13:08 Arrived on site and filled out safety documents. Met with Devon representative and contractors, discussing work plan for the day and safety and signing safety documents. 08:20.

Marked off select locations to excavate for vertical delineation and investigation. 09:00

Excavated and collected samples BH23-14 2'; BH23-14 4'; BH23-14 6'; BH23-14 8'; BH23-14 9'.

Field screened for chlorides with EC meter.

Field screening produced >600 ppm Cl for all samples. All samples beyond 2' were consistent within around a +\- 1000 ppm Cl levels. 10:00.

14:29 Excavated and collected samples BH23-05 2'; BH23-05 4'; BH23-05 6'; BH23-14 8';

Field screened for chlorides with EC meter.

Field screening produced >600 ppm Cl for all samples.

4/20/2023 5:00 PM

Field screened all samples for TPH with Dexsil Petroflag.



16:44 Backfilled BH23-05 and BH23-14. 14:15

Excavated and collected samples BG23-01 0', BG23-01 2', BG23-01 4', and BG23-01 6'. Back filled BG23-01. 15:00

Field screened samples for chlorides. All samples except BG23-01 0' screened >600 ppm Cl. 15:50

Prepared samples for lab and cleaned up for day. 16:40

16:45 Completed daily field report and daily soil sample report. 17:00

Next Steps & Recommendations

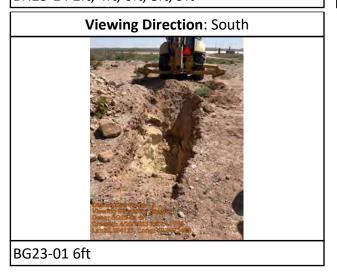
1



Site Photos



BH23-14 2ft, 4ft, 6ft, 8ft, 9ft





BH23-05 2ft, 4ft, 6ft, 8ft backfilled



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:

Arrived at Site

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	4/21/2023				
Site Location Name:	Laguna Salado 22 Fed 4	Report Run Date:	4/21/2023 8:51 PM				
Client Contact Name:	Dale Woodall	API #:					
Client Contact Phone #:	405-318-4697						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							

Field Notes

- 10:21 Arrived on site and filled out safety documents. Met with Devon contractors, discussing work plan for the day and safety and signing safety documents. 08:00
- **10:51** Performed line sweep with magnetic locator.

Collected sample BH23-40 0'.

Excavated and collected samples BG23-01 8'; BG23-02 0', BG23-02 2', BG23-02 4', BG23-02 6', and BG23-02 8'.

Field screened samples for chlorides with EC meter. Samples BH23-40 0' and BG23-02 0' were <600 ppm Cl.

12:16 Devon contractors excavator crew departed site.

Field screened BH23-40 for TPH with Dexsil Petroflag. Results <100 ppm TPH.

Completed preparing samples for lab.

Completed daily field report and daily soil sample report.

4/21/2023 7:20 AM 4/21/2023 12:30 PM



Next Steps & Recommendations

1 Collect data from lab.



Site Photos



BG23-01 8ft



BG23-02 4ft green clay layer



BG23-01 8ft



BG23-02 8ft red clay layer







Viewing Direction: West



Prepared samples for lab, view of variation in depth layer.



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	8/24/2023				
Site Location Name:	Laguna Salado 22 Fed 4	Report Run Date:	8/24/2023 11:36 PM				
Client Contact Name:	Dale Woodall	API #:					
Client Contact Phone #:	405-318-4697						
Unique Project ID		Project Owner:					
Project Reference #		Project Manager:					
Summary of Times							
Arrived at Site	8/24/2023 9:15 AM						

Field Notes

- **11:19** Arrived on site, filling out and signing safety documents. Examined site and location to determine locations for marking target sample points and sweeping for lines with magnetic locator.
- **14:25** Collected samples BH23-18, -25, -32 (on pad), -33, -34, -38 (on pad), and -40 (on pad) at 1 foot depth. Field screened for chlorides with EC and also silver nitrate titration for BH23-38 1'. Field screened for TPH with Dexsil petroflag.
- 14:25 Backfilled boreholes and prepared samples for lab.

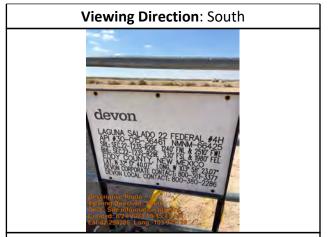
8/24/2023 3:45 PM

Next Steps & Recommendations

- 1 Sand samples to lab and await lab results
- 2 Compose remediation work plan



Site Photos



Site information placard



Natural salt lake approximately +\-500 ft west of pad



Sample area to north and east



BH23-32 1ft, 1ft refusal





BH23-40 1ft, 1ft refusal



BH23-38 1ft, 1ft refusal



BH23-34 1ft



BH23-33 1ft, 1ft refusal





BH23-18 1ft



BH23-25 1ft



Sample area to south and east



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:

ATTACHMENT 4

Client Name: Devon Energy Production Company, LP

Site Name: Laguna Salado 22 Federal #004H NMOCD Tracking #: NSEB0830236670

Project #: 23E-01414 - 3

Lab Reports: 2303C85, 2303D22, 2304340, 2304662, 2304962 and 2308E59

		ble 3. Initial Characteriza				Laborator	y Results	-			feet bgs		
<u> </u>	Sample De	escription	Fi	eld Screeni	ng			Petroleum Hydrocarbons					
			s			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	(GRO)	교 Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(ERO + DRO)	Total Petroleum	BB) Chloride Concentration
	0	April 20, 2023	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND
	2	April 20, 2023	-	-	4,355	ND	ND	ND	ND	ND	ND	ND	1,300
BG23-01	4	April 20, 2023	-	-	1,425	ND	ND	ND	ND	ND	ND	ND	880
	6	April 20, 2023	-	-	2,094	ND	ND	ND	ND	ND	ND	ND	1,000
	8	April 21, 2023	-	-	1,975	ND	ND	ND	ND	ND	ND	ND	ND
	0	April 21, 2023	-	-	238	ND	ND	ND	ND	ND	ND	ND	ND
	2	April 21, 2023	-	-	1,864	ND	ND	ND	ND	ND	ND	ND	660
BG23-02	4	April 21, 2023	-	-	3,390	ND	ND	ND	ND	ND	ND	ND	2,300
	6	April 21, 2023	-	-	3,202	ND	ND	ND	ND	ND	ND	ND	1,900
	8	April 21, 2023	-	-	2,569	ND	ND	ND	ND	ND	ND	ND	1,900
BH23-01	0	March 23, 2023	0	-	1,090	ND	ND	ND	10	ND	10	10	750
5.125 01	1	March 23, 2023	0	-	643	ND	ND	ND	ND	ND	ND	ND	530
BH23-02	0	March 23, 2023	0	-	188	ND	ND	ND	ND	ND	ND	ND	120
D1123 02	1	March 23, 2023	0	-	100	ND	ND	ND	ND	ND	ND	ND	61
BH23-03	0	March 23, 2023	0	-	4,113	ND	ND	ND	ND	ND	ND	ND	4700
БП23-03	1	March 23, 2023	0	-	573	ND	ND	ND	ND	ND	ND	ND	490
BH23-04	0	March 23, 2023	0	-	2,863	ND	ND	ND	11	ND	11	11	3100
ВП23-04	1	March 23, 2023	0	-	1,688	ND	ND	ND	ND	ND	ND	ND	1400
	0	March 23, 2023	0	-	7,965	ND	ND	ND	ND	ND	ND	ND	8400
	1	March 23, 2023	0	-	5,630	ND	ND	ND	ND	ND	ND	ND	5400
BH23-05	2	April 20, 2023	-	82	2,352	ND	ND	ND	ND	ND	ND	ND	1000
	4	April 20, 2023	-	87	2,056	ND	ND	ND	ND	ND	ND	ND	1600
	6	April 20, 2023	-	97	2,313	ND	ND	ND	ND	ND	ND	ND	1700
	0	March 23, 2023	0	-	505	ND	ND	ND	ND	ND	ND	ND	350
BH23-06	1	March 23, 2023	0	-	670	ND	ND	ND	ND	ND	ND	ND	700
	0	March 23, 2023	0	-	703	ND	ND	ND	ND	ND	ND	ND	680
BH23-07	1	March 23, 2023	0	-	1,380	ND	ND	ND	ND	ND	ND	ND	550
	0	March 24, 2023	0	_	380	ND	ND	ND	ND	ND	ND	ND	300
BH23-08	1	March 24, 2023	0	-	363	ND	ND	ND	ND	ND	ND	ND	360
	0	March 24, 2023	0		965	ND	ND	ND	ND	ND	ND	ND	1100
BH23-09	1	March 24, 2023	0	-	2.045	ND	ND	ND ND	ND	ND	ND	ND	2300
	0	March 24, 2023	0	_	233	ND	ND	ND	ND	ND	ND	ND	ND
BH23-10	1	March 24, 2023	0	-	135	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	0	April 5, 2023	0	68	1,212	ND	ND	ND ND	ND ND	ND	ND ND	ND ND	620
BH23-11	2	April 5, 2023 April 5, 2023	0	- 08	2,068	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1200
	0	April 5, 2023 April 5, 2023	0	41	417	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
BH23-12	2		0	- 41		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	920
DI 123-12	3	April 5, 2023	0	-	1,140 1,016	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	720
		April 5, 2023			,								
DU 22 42	0	April 5, 2023	0	62	2,773	ND	ND	ND	ND	ND	ND	ND	100
BH23-13	1	April 5, 2023	0	-	2,551	ND	ND	ND	ND	ND	ND	ND	450
	2	April 5, 2023	0	-	2,120	ND	ND	ND	ND	ND	ND	ND	1500



Client Name: Devon Energy Production Company, LP

Site Name: Laguna Salado 22 Federal 4 NMOCD Tracking #: NSEB0830236670,

Project #: 23E-01414 - 3

Lab Reports: 2303C85, 2303D22, 2304340, 2304662, 2304962 and 2308E59

	Та	ble 3. Initial Characteriza	tion Samp	le Field Sc	reen and	Laborator	y Results	- Depth to	Groundw	ater <50	feet bgs		
	Sample De	scription	Fi	eld Screeni	ng		Petroleum Hydrocarbons						
			S			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	(GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	Total Petroleum Hydrocarbons (TPH)	(%) Chloride Concentration
	0	April 5, 2023	0	235	17,872	ND	ND	ND	ND	ND	ND	ND	13000
	1	April 5, 2023	0	- 233	7,799	ND	ND	ND	ND	ND	ND	ND	4900
	2	April 20, 2023	-	29	4,539	ND	ND	ND	ND	ND	ND	ND	2000
BH23-14	4	April 20, 2023	-	83	2,310	ND	ND	ND	ND ND	ND ND	ND ND	ND ND	1200
51125 14	6	April 20, 2023		43	3,231	ND	ND	ND	ND ND	ND	ND	ND	1900
	8	April 20, 2023	_	88	2,188	ND	ND	ND	ND ND	ND ND	ND ND	ND	1500
	9	April 20, 2023	-	85	3,570	ND	ND	ND	ND	ND	ND	ND	2400
BH23-15	0	April 20, 2023	-	-	6,132	-	-	-	-	-	-	-	-
BH23-16	0	April 13, 2023	-	_	9,495	ND	ND	ND	ND	ND	ND	ND	6400
BH23-17	0	April 13, 2023	-	-	3,852	-	-	-	-	-	-	-	-
D1123-17	0	April 13, 2023	-	38	196	ND	ND	ND	ND	ND	ND	ND	ND
BH23-18	1	August 24, 2023	-	61	1,086	ND	ND	ND	ND	ND	ND	ND	ND
BH23-19	0	April 13, 2023	_	-	8,870	ND	ND	ND	ND	ND	ND	ND	6400
BH23-20	0	April 13, 2023	-	-	1,711	-	-	-	-	-	-	-	-
BH23-21	0	April 13, 2023	-	_	2,681	_	_	_	_	_	_	_	_
BH23-22	0	April 13, 2023	-	_	11,879	ND	ND	ND	ND	ND	ND	ND	10000
BH23-23	0	April 13, 2023	-	-	2,108	-	-	-	-	-	-	-	-
BH23-24	0	April 13, 2023	-	-	10,058	_	-	_	-	-	_	-	-
	0	April 13, 2023	-	70	95	ND	ND	ND	ND	ND	ND	ND	ND
BH23-25	1	August 24, 2023		61	681	ND	ND	ND	ND	ND	ND	ND	ND
BH23-26	0	April 13, 2023	-	48	0	ND	ND	ND	ND	ND	ND	ND	ND
BH23-27	0	April 13, 2023	-	40	0	ND	ND	ND	ND	ND	ND	ND	ND
BH23-28	0	April 13, 2023	-	29	0	ND	ND	ND	ND	ND	ND	ND	ND
BH23-29	0	April 13, 2023	-	-	1,695	-	-	-	-	-	-	-	-
BH23-30	0	April 13, 2023	-	111	5,533	-	-	-	-	-	-	-	-
BH23-31	0	April 13, 2023	-	97	932	ND	ND	ND	ND	ND	ND	ND	600
	0	April 13, 2023	-	-	21,751	ND	ND	ND	ND	ND	ND	ND	21000
BH23-32	1	August 24, 2023	-	86	903	ND	ND	ND	ND	ND	ND	ND	550
D1122 25	0	April 13, 2023	-	42	177	ND	ND	ND	ND	ND	ND	ND	110
BH23-33	1	August 24, 2023	-	85	505	ND	ND	ND	ND	ND	ND	ND	750
DU122 24	0	April 13, 2023	-	35	98	ND	ND	ND	ND	ND	ND	ND	ND
BH23-34	1	August 24, 2023	-	42	46	ND	ND	ND	ND	ND	ND	ND	62
BH23-35	0	April 13, 2023	-	-	14,626	-	-	-	-	-	-	-	-
BH23-36	0	April 13, 2023	-	-	4,448	-	-	-	-	-	-	-	-
BH23-37	0	April 13, 2023	-	-	6,601	-		-	-	-	-	-	-
DU122 20	0	April 13, 2023	-	-	636	ND	ND	ND	ND	ND	ND	ND	130
BH23-38	1	August 24, 2023	-	138	1,975	ND	ND	ND	9.9	ND	9.9	9.9	1800
BH23-39	0	April 13, 2023	-	-	2,958	-	-	-	-	-	-	-	-
	0	April 21, 2023	-	69	256	ND	ND	ND	10	ND	10	10	110
BH23-40	1	August 24, 2023	-	45	0	ND	ND	ND	ND	ND	ND	ND	ND

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

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

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



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



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

OrderNo.: 2303C85

April 03, 2023

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

TEL: (505) 350-1336

FAX

RE: Laguna Salado 22 Federal 4

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 14 sample(s) on 3/25/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 8:52:00 AM

 Lab ID:
 2303C85-001
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	10	9.5	mg/Kg	1	3/30/2023 10:58:49 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/30/2023 10:58:49 PM
Surr: DNOP	102	69-147	%Rec	1	3/30/2023 10:58:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/30/2023 1:33:00 PM
Surr: BFB	91.2	37.7-212	%Rec	1	3/30/2023 1:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 1:33:00 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2023 1:33:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2023 1:33:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/30/2023 1:33:00 PM
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	3/30/2023 1:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	750	60	mg/Kg	20	3/30/2023 10:05:40 AM

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 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-01 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 9:42:00 AM

 Lab ID:
 2303C85-002
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 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	3/30/2023 11:09:21 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/30/2023 11:09:21 PM
Surr: DNOP	101	69-147	%Rec	1	3/30/2023 11:09:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/30/2023 1:54:00 PM
Surr: BFB	86.2	37.7-212	%Rec	1	3/30/2023 1:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/30/2023 1:54:00 PM
Toluene	ND	0.050	mg/Kg	1	3/30/2023 1:54:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/30/2023 1:54:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/30/2023 1:54:00 PM
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	3/30/2023 1:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	530	60	mg/Kg	20	3/30/2023 10:18:04 AM

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

pple pH Not In Range Page 2 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 9:56:00 AM

 Lab ID:
 2303C85-003
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 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	3/30/2023 11:30:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/30/2023 11:30:16 PM
Surr: DNOP	102	69-147	%Rec	1	3/30/2023 11:30:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/30/2023 2:16:00 PM
Surr: BFB	91.1	37.7-212	%Rec	1	3/30/2023 2:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 2:16:00 PM
Toluene	ND	0.048	mg/Kg	1	3/30/2023 2:16:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/30/2023 2:16:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/30/2023 2:16:00 PM
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	3/30/2023 2:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	120	59	mg/Kg	20	3/30/2023 10:55:17 AM

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 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 10:18:00 AM

 Lab ID:
 2303C85-004
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/30/2023 11:51:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/30/2023 11:51:07 PM
Surr: DNOP	106	69-147	%Rec	1	3/30/2023 11:51:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/30/2023 2:38:00 PM
Surr: BFB	92.2	37.7-212	%Rec	1	3/30/2023 2:38:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 2:38:00 PM
Toluene	ND	0.048	mg/Kg	1	3/30/2023 2:38:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/30/2023 2:38:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/30/2023 2:38:00 PM
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	3/30/2023 2:38:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	61	60	mg/Kg	20	3/30/2023 11:07:41 AM

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

ple pH Not In Range Page 4 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 10:36:00 AM

 Lab ID:
 2303C85-005
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 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	9.2	mg/Kg	1	3/31/2023 12:01:35 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/31/2023 12:01:35 AM
Surr: DNOP	97.0	69-147	%Rec	1	3/31/2023 12:01:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/30/2023 2:59:00 PM
Surr: BFB	91.9	37.7-212	%Rec	1	3/30/2023 2:59:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 2:59:00 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2023 2:59:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2023 2:59:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/30/2023 2:59:00 PM
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	3/30/2023 2:59:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4700	150	mg/Kg	50	3/31/2023 8:01:03 AM

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 5 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 10:46:00 AM

 Lab ID:
 2303C85-006
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 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	9.8	mg/Kg	1	3/31/2023 12:12:02 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/31/2023 12:12:02 AM
Surr: DNOP	103	69-147	%Rec	1	3/31/2023 12:12:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/30/2023 3:21:00 PM
Surr: BFB	88.5	37.7-212	%Rec	1	3/30/2023 3:21:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/30/2023 3:21:00 PM
Toluene	ND	0.050	mg/Kg	1	3/30/2023 3:21:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/30/2023 3:21:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/30/2023 3:21:00 PM
Surr: 4-Bromofluorobenzene	86.9	70-130	%Rec	1	3/30/2023 3:21:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	490	60	mg/Kg	20	3/30/2023 11:32:29 AM

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 6 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 11:10:00 AM

 Lab ID:
 2303C85-007
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	11	10	mg/Kg	1	3/31/2023 12:32:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/31/2023 12:32:50 AM
Surr: DNOP	106	69-147	%Rec	1	3/31/2023 12:32:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/30/2023 4:04:00 PM
Surr: BFB	90.3	37.7-212	%Rec	1	3/30/2023 4:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/30/2023 4:04:00 PM
Toluene	ND	0.050	mg/Kg	1	3/30/2023 4:04:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/30/2023 4:04:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/30/2023 4:04:00 PM
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	3/30/2023 4:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	3100	150	mg/Kg	50	3/31/2023 8:13:27 AM

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

tring Limit Page 7 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 11:32:00 AM

 Lab ID:
 2303C85-008
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 3/31/2023 12:43:15 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 3/31/2023 12:43:15 AM Surr: DNOP 69-147 %Rec 1 3/31/2023 12:43:15 AM 112 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 3/30/2023 4:26:00 PM 5.0 mg/Kg 1 Surr: BFB 89.0 37.7-212 %Rec 1 3/30/2023 4:26:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 mg/Kg 3/30/2023 4:26:00 PM 1 Toluene ND 0.050 mg/Kg 1 3/30/2023 4:26:00 PM Ethylbenzene ND 0.050 mg/Kg 1 3/30/2023 4:26:00 PM Xylenes, Total ND 0.10 mg/Kg 1 3/30/2023 4:26:00 PM Surr: 4-Bromofluorobenzene 86.1 70-130 %Rec 1 3/30/2023 4:26:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 1400 60 3/30/2023 11:57:18 AM ma/Ka 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 8 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 12:33:00 PM

 Lab ID:
 2303C85-009
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/31/2023 12:53:39 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/31/2023 12:53:39 AM
Surr: DNOP	98.4	69-147	%Rec	1	3/31/2023 12:53:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/30/2023 4:47:00 PM
Surr: BFB	92.7	37.7-212	%Rec	1	3/30/2023 4:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/30/2023 4:47:00 PM
Toluene	ND	0.050	mg/Kg	1	3/30/2023 4:47:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/30/2023 4:47:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/30/2023 4:47:00 PM
Surr: 4-Bromofluorobenzene	84.8	70-130	%Rec	1	3/30/2023 4:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	8400	300	mg/Kg	100	3/31/2023 8:25:49 AM

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 9 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 12:53:00 PM

 Lab ID:
 2303C85-010
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/31/2023 1:04:01 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/31/2023 1:04:01 AM
Surr: DNOP	99.8	69-147	%Rec	1	3/31/2023 1:04:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/30/2023 5:09:00 PM
Surr: BFB	87.6	37.7-212	%Rec	1	3/30/2023 5:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 5:09:00 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2023 5:09:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2023 5:09:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/30/2023 5:09:00 PM
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	3/30/2023 5:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	5400	300	mg/Kg	100	3/31/2023 8:38:13 AM

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 10 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 1:00:00 PM

 Lab ID:
 2303C85-011
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/31/2023 1:14:23 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/31/2023 1:14:23 AM
Surr: DNOP	98.2	69-147	%Rec	1	3/31/2023 1:14:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/30/2023 5:30:00 PM
Surr: BFB	87.2	37.7-212	%Rec	1	3/30/2023 5:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 5:30:00 PM
Toluene	ND	0.048	mg/Kg	1	3/30/2023 5:30:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/30/2023 5:30:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/30/2023 5:30:00 PM
Surr: 4-Bromofluorobenzene	86.1	70-130	%Rec	1	3/30/2023 5:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	350	59	mg/Kg	20	3/30/2023 12:34:32 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 11 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 1:18:00 PM

 Lab ID:
 2303C85-012
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/31/2023 1:35:03 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/31/2023 1:35:03 AM
Surr: DNOP	99.3	69-147	%Rec	1	3/31/2023 1:35:03 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/30/2023 5:52:00 PM
Surr: BFB	87.0	37.7-212	%Rec	1	3/30/2023 5:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/30/2023 5:52:00 PM
Toluene	ND	0.049	mg/Kg	1	3/30/2023 5:52:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/30/2023 5:52:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/30/2023 5:52:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	3/30/2023 5:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	700	60	mg/Kg	20	3/30/2023 12:46:56 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 12 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 1:35:00 PM

 Lab ID:
 2303C85-013
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/31/2023 1:45:27 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/31/2023 1:45:27 AM
Surr: DNOP	101	69-147	%Rec	1	3/31/2023 1:45:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/30/2023 6:14:00 PM
Surr: BFB	96.6	37.7-212	%Rec	1	3/30/2023 6:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	3/30/2023 6:14:00 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2023 6:14:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2023 6:14:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/30/2023 6:14:00 PM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	3/30/2023 6:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	680	60	mg/Kg	20	3/30/2023 1:24:10 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 13 of 18

Date Reported: 4/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-07 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/23/2023 2:02:00 PM

 Lab ID:
 2303C85-014
 Matrix: SOIL
 Received Date: 3/25/2023 11:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/31/2023 1:55:49 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/31/2023 1:55:49 AM
Surr: DNOP	106	69-147	%Rec	1	3/31/2023 1:55:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/30/2023 6:35:00 PM
Surr: BFB	90.7	37.7-212	%Rec	1	3/30/2023 6:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/30/2023 6:35:00 PM
Toluene	ND	0.049	mg/Kg	1	3/30/2023 6:35:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/30/2023 6:35:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/30/2023 6:35:00 PM
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	3/30/2023 6:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	550	59	mg/Kg	20	3/30/2023 1:36:34 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 14 of 18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C85**

03-Apr-23

Client: Devon Energy

Project: Laguna Salado 22 Federal 4

Sample ID: MB-74020 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74020 RunNo: 95700

Prep Date: 3/30/2023 Analysis Date: 3/30/2023 SeqNo: 3463677 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74020 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74020 RunNo: 95700

Prep Date: 3/30/2023 Analysis Date: 3/30/2023 SeqNo: 3463678 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.6 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 15 of 18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C85** *03-Apr-23*

Client: Devon Energy

Project: Laguna Salado 22 Federal 4

Sample ID: MB-74034 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74034 RunNo: 95677

Prep Date: 3/30/2023 Analysis Date: 3/30/2023 SeqNo: 3463183 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 9.6 10.00 96.5 69 147

Sample ID: LCS-74034 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74034 RunNo: 95677

Prep Date: 3/30/2023 Analysis Date: 3/30/2023 SeqNo: 3463186 Units: mg/Kg

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

Diesel Range Organics (DRO) 41 10 50.00 0 81.1 61.9 130 Surr: DNOP 4.9 5.000 97.7 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 16 of 18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C85 03-Apr-23**

Client: Devon Energy

Project: Laguna Salado 22 Federal 4

Sample ID: Ics-73993 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 73993 RunNo: 95676

Prep Date: 3/28/2023 Analysis Date: 3/30/2023 SeqNo: 3462547 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 91.5
 70
 130

 Surr: BFB
 2000
 1000
 205
 37.7
 212

Sample ID: mb-73993 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 73993 RunNo: 95676

Prep Date: 3/28/2023 Analysis Date: 3/30/2023 SeqNo: 3462548 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 880 1000 87.8 37.7 212

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 17 of 18

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303C85** *03-Apr-23*

Client: Devon Energy

Project: Laguna Salado 22 Federal 4

Sample ID: Ics-73993	Sampl	ype: LC	S TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batcl	n ID: 73 9	993	F	RunNo: 9	5676						
Prep Date: 3/28/2023	Analysis D	Date: 3/	Units: mg/K	(g								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.94	0.025	1.000	0	94.3	80	120					
Toluene	0.94	0.050	1.000	0	94.0	80	120					
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120					
Xylenes, Total	3.000	0	91.4	80	120							
Surr: 4-Bromofluorobenzene 0.90 1.000					89.6	70	130					

Sample ID: mb-73993	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: 73	993	F	tunNo: 9	5676				
Prep Date: 3/28/2023	Analysis D	Date: 3/	30/2023	S	SeqNo: 3	462554	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	0.86		1.000		86.4	70	130			

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
- 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 18 of 18



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/4/2025 2:49:23 PM

		weosite. www	v.nanenvironmentai	.com		
Client Name:	Devon Energy	Work Order Numl	ber: 2303C85		RcptNo: 1	
Received By:	Tracy Casarrubias	3/25/2023 11:00:00	AM			
Completed By:	Tracy Casarrubias	3/25/2023 11:58:31	АМ			
Reviewed By:	Ju3/27/23					
Chain of Cust	<u>ody</u>					
1. Is Chain of Cus	stody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the s	ample delivered?		Courier			
Log In 3. Was an attemp	ot made to cool the sample	es?	Yes 🗹	No 🗌	na 🗆	
4. Were all sample	es received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗌	na 🗆	
5. Sample(s) in pi	roper container(s)?		Yes 🗹	No 🗆		
გ. Sufficient samp	le volume for indicated te	st(s)?	Yes 🗹	No 🗌		
7. Are samples (e	xcept VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
B. Was preservati	ve added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	st 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
(). Were any samp	ple containers received br	oken?	Yes	No 🗹	# of preserved	
	k match bottle labels? ncies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or >1/2	unless noted)
	orrectly identified on Chain		Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what a	analyses were requested?	,	Yes 🗹	No 🗆		, 1
-	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗆	Checked by: TM	_ 3/25/23
pecial Handlir	ng (if applicable)					
15.Was client noti	fied of all discrepancies w	ith this order?	Yes 🗌	No 🗆	na 🗹	
Person N	lotified:	Date:				
By Whon	n:	Via:	eMail P	hone Fax	In Person	
Regardin	g:					
Client Ins	structions:	· · · · · · · · · · · · · · · · · · ·				
16. Additional rem	arks:					
17. <u>Cooler Inform</u>	nation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1	4.3 Good	Yes You		100		

DONO	-		Record Turn-Around Time: Standard Rush 5000 ANALYSIS LABORATOR																	
Client: Devon / Vertex Standard Rush 5 000 ANALYSIS LAB Project Name: Vertex Project Name: www.hallenvironmental.com							OR													
Address	61	1.1.	lac	auni	a Salado	22 Federal 4		40	04.11									20		
, tadi ooo.	ON	fill.		L	0.00	•)9		
		V			01414		At .	16	el. 50)5-34	·5-3				A 1/2		4107			
					······································			<u> </u>						3.5	100					
			1 '		_		021)	ARO.	S		<u>S</u>					sen				
•		□ Level 4 (Full Validation)	Ke	M	Stalling	gs .	s (8)	1/0	PCE		SIS		PO			[AP				
	Π Δτ C	· · · · · · · · · · · · · · · · · · ·			SPC	<i>J</i>	W W	DR(=	270					seu				
		•			¥ Yes	□ No ucai	-)8/s	504.		s			8	P.				
(Type)_			to be a few and the few and th					(G	cide	po.	310	etal	Š	2	<u>-</u>	티				
			Cooler	Temp	O(including CF):	4-01=43 (°C)		150	esti	Meth	by 8	8 8	Br,	70/	Sen	흥				
			Contair	ner	Preservative	HEAL No.)8:H	81 F	B (f	Ήs	¥	*	09	70 (tal				
Time	Matrix	Sample Name	Туре а	nd#	Туре			<u>E</u> ,	8	田	<u>₽</u>	<u>R</u>	(C)	82	82	은		_	\sqcup	
8:52	Soil	BH23-01 0'	409	jar	ice	2303C85-∞1	V	<u> </u>					/							$oxedsymbol{oxed}$
9:42	1	BH23-01 1'		V		002	L	1												
						003														
						004	П	П												
								П												
							П	П					Т		-				\Box	
							П	\sqcap												
						T	Π	\sqcap					П							
								П												
1							Π	П					П							
						011 -	\top	П												
1				1		012-	1	\sqcap					T							
Date: Time: Relinquished by: 3/13/23 19:24 Sally Carttan Date: Time: Relinquished by: 3/13/23 19:24 Sally Carttan Date: Time: Relinquished by:					Received by: Via: Date Time 3 M B B B B B B B B B B B B B B B B B B			pe	end c sc P). (12						•	•		
	#: Fax#: Package: dard tation: AC (Type) Time 8:52 9:56 10:18 10:36 11:10 11:32 12:33 12:53 13:00 13:18 Time: 19:26 Time: 19:70	#: Fax#: Package: dard tation:	#: Fax#: Package: dard	#: 23 Fax#: Project #: 23 Fackage:	Project #: 23E - 0 Fax#:	Project #:	Project #:	Project #: 23E - 014 4	Project #: 23E - 014 14 Project Manager: 23E - 014 14 Project Manager: Projec	Project #: 23E - 014 14 Project #: 23E - 014 14 Project Manager: Project	Project #: 23E - 014 (4	Project #:	Project #: 23E - 01414	Project #: 23E - 014 (4	Project #: 23E - 014 4	Project #: 23E - 014 4	Project #: 23E - 014 (4 23E -	Project #: 23E - 014 (4	Project #:	Project #:

	hain-	of-Cu	ıstody Re	cord	Turn-Around	Time:			HALL ENVIRONMEN						NT	ΔI							
Client:	Devo	n/Ver	rtex		Standard	Rushe: Salacto	5 Dai	<u>) </u>	-		11.58	A	N	AL	YS	IS	L	AE	30				
Mailing	Address	on	file	-	Laguna Project #:	Salado	22 Fed	eral 4	Tel. 505-345-3975 Fax 505-345-4107														
Phone #	# :				夢 23	3E-0141	4	er v. K			Analysis Request									VEN			
email o	Fax#:				Project Mana	ager:			1)	21) RO) SO ₄							£)			let a			
QA/QC I □ Stan	Package: dard		□ Level 4 (Ful	l Validation)	Kent S	stallings SPC			TMB's (8021)	DRO/MRO)	PCB's		8270SIMS		PO4,			nt/Abse	PR via				
Accredi		□ Az Co □ Other	ompliance		On Ice:	□ Yes	A I	(09)		~	ss/8082	504.1)	১	<u>s</u>	3, NO ₂ ,	847 OO	OA)	(Prese		210x			
□ EDD	(Type)				# of Coolers: Cooler Temp)(including CF): 4 . 4			/ MTBE /	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	(B)F, Br, NO ₃ ,	VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	nge tal Harwy Lavaria Discontinue	17.7			:
Date	Time	Matrix	Sample Nan	пе	Container Type and #	Preservative Type	HEAI	. No.	ETEN	TPH:8(8081 F	EDB (I	PAHs	RCRA	C) F,	8260 (VOA)	8270 (Total C	***				
3/23/23	13:35	Soil	BH23-07	0'	403 jar	ice	25,55		V	✓							× 11.	W.	34 m	****	fi		
L _I	14:02	ч	BH23-07	11	и	81	distriction of the second		V	\checkmark	\dashv	Nous		ving f	✓		ccir pos m	i ikus mare	ng (M)	al sq	A A S		1-
					11 1	SO GAS	vilginos	11 25 Mari						get WA	- 10 - 10 - 10 - 10 - 10 - 10	11 1		7/10	14 14 15		Harley Shares		
							7.15.									aA10	175				271		_
						- 14	w (4.5)		<u> </u>				E is a		410		-11-T	100.5	77.991	n no a	100		
							TIPE I	- 1							Ale, Ila a	TO S	780	241	(J.J.)	100	1111		
		11			150				 				- 54	- 10					-1 1		8 4- 2-0-4	+	+
													1 1		B .	10			7 7	- 17	(A)A)		
Date: Time: Relinquished by: 3/23/23 19:210 Sally Cartta					Received by:	Via:	Date 3/24/23	Time 845		nark Veno) N	16 H	r	10:		1 (1) 1 (4) 1 (7)						
Date: 3/34/33	Time:	Relinquish	ned by:		Received by:	Via: COLA	5 Date 3/25/A3	Time Cc Scarffar @ vertex. Ca								1991							



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

April 04, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Laguna Salado 22 Federal 4 OrderNo.: 2303D22

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/28/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/24/2023 9:30:00 AM

 Lab ID:
 2303D22-001
 Matrix: SOIL
 Received Date: 3/28/2023 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	9.1	mg/Kg	1	3/30/2023 4:24:15 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/30/2023 4:24:15 PM
Surr: DNOP	87.0	69-147	%Rec	1	3/30/2023 4:24:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/31/2023 6:04:14 AM
Surr: BFB	98.5	37.7-212	%Rec	1	3/31/2023 6:04:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/31/2023 6:04:14 AM
Toluene	ND	0.048	mg/Kg	1	3/31/2023 6:04:14 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2023 6:04:14 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/31/2023 6:04:14 AM
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	3/31/2023 6:04:14 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	300	60	mg/Kg	20	3/30/2023 4:55:06 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 1 of 11

Date Reported: 4/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-08 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/24/2023 10:00:00 AM

 Lab ID:
 2303D22-002
 Matrix: SOIL
 Received Date: 3/28/2023 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	8.8	mg/Kg	1	3/30/2023 4:34:54 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/30/2023 4:34:54 PM
Surr: DNOP	102	69-147	%Rec	1	3/30/2023 4:34:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/31/2023 6:27:39 AM
Surr: BFB	99.7	37.7-212	%Rec	1	3/31/2023 6:27:39 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/31/2023 6:27:39 AM
Toluene	ND	0.049	mg/Kg	1	3/31/2023 6:27:39 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2023 6:27:39 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/31/2023 6:27:39 AM
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	3/31/2023 6:27:39 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	360	59	mg/Kg	20	3/30/2023 5:07:31 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 11

Date Reported: 4/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-09 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/24/2023 10:10:00 AM

 Lab ID:
 2303D22-003
 Matrix: SOIL
 Received Date: 3/28/2023 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 10 mg/Kg 1 3/30/2023 4:45:36 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 3/30/2023 4:45:36 PM Surr: DNOP 92.5 69-147 %Rec 1 3/30/2023 4:45:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 3/31/2023 6:51:04 AM mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 3/31/2023 6:51:04 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 3/31/2023 6:51:04 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 3/31/2023 6:51:04 AM Ethylbenzene ND 0.047 mg/Kg 1 3/31/2023 6:51:04 AM Xylenes, Total ND 0.094 mg/Kg 1 3/31/2023 6:51:04 AM Surr: 4-Bromofluorobenzene 89.9 70-130 %Rec 1 3/31/2023 6:51:04 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 3/30/2023 5:19:56 PM 1100 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

Page 3 of 11

Date Reported: 4/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-09 1'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 3/24/2023 10:20:00 AM

 Lab ID:
 2303D22-004
 Matrix: SOIL
 Received Date: 3/28/2023 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 9.4 mg/Kg 1 3/30/2023 5:07:00 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/30/2023 5:07:00 PM Surr: DNOP 153 69-147 S %Rec 1 3/30/2023 5:07:00 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 3/31/2023 7:14:28 AM 4.9 mg/Kg 1 Surr: BFB 98.6 37.7-212 %Rec 1 3/31/2023 7:14:28 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 3/31/2023 7:14:28 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 3/31/2023 7:14:28 AM Ethylbenzene ND 0.049 mg/Kg 1 3/31/2023 7:14:28 AM Xylenes, Total ND 0.097 mg/Kg 1 3/31/2023 7:14:28 AM Surr: 4-Bromofluorobenzene 87.7 70-130 %Rec 1 3/31/2023 7:14:28 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 3/30/2023 5:32:21 PM 2300 59 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 4 of 11

Date Reported: 4/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-10 0'

Project: Laguna Salado 22 Federal 4 Collection Date: 3/24/2023 10:35:00 AM

Lab ID: 2303D22-005 **Matrix:** SOIL **Received Date:** 3/28/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/30/2023 5:17:41 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/30/2023 5:17:41 PM
Surr: DNOP	95.2	69-147	%Rec	1	3/30/2023 5:17:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/31/2023 7:37:58 AM
Surr: BFB	99.9	37.7-212	%Rec	1	3/31/2023 7:37:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/31/2023 7:37:58 AM
Toluene	ND	0.049	mg/Kg	1	3/31/2023 7:37:58 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2023 7:37:58 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/31/2023 7:37:58 AM
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	3/31/2023 7:37:58 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	3/30/2023 5:44:46 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 5 of 11

Date Reported: 4/4/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-10 1'

Project: Laguna Salado 22 Federal 4 Collection Date: 3/24/2023 10:50:00 AM

Lab ID: 2303D22-006 **Matrix:** SOIL **Received Date:** 3/28/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/31/2023 2:48:43 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/31/2023 2:48:43 PM
Surr: DNOP	106	69-147	%Rec	1	3/31/2023 2:48:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/31/2023 9:58:39 PM
Surr: BFB	98.8	37.7-212	%Rec	1	3/31/2023 9:58:39 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/31/2023 9:58:39 PM
Toluene	ND	0.050	mg/Kg	1	3/31/2023 9:58:39 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2023 9:58:39 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/31/2023 9:58:39 PM
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	3/31/2023 9:58:39 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	3/31/2023 6:45:02 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 6 of 11

Hall Environmental Analysis Laboratory, Inc.

2303D22

WO#:

04-Apr-23

Client: Vertex Resources Services, Inc.
Project: Laguna Salado 22 Federal 4

Sample ID: MB-74038 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74038 RunNo: 95700

Prep Date: 3/30/2023 Analysis Date: 3/30/2023 SeqNo: 3463712 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74038 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 74038 RunNo: 95700 Prep Date: 3/30/2023 Analysis Date: 3/30/2023 SeqNo: 3463713 Units: mg/Kg **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 0 92.7 90 110

Sample ID: MB-74065 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 74065 RunNo: 95704 Prep Date: Analysis Date: 3/31/2023 SeqNo: 3464415 Units: mg/Kg 3/31/2023 Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit

Chloride ND 1.5

Sample ID: LCS-74065 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74065 RunNo: 95704

Prep Date: 3/31/2023 Analysis Date: 3/31/2023 SeqNo: 3464416 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.8 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 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

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

2303D22 04-Apr-23

WO#:

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Project: Laguna	Salado 22 Federal	4							
Sample ID: MB-74015	SampType: MI	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 74	015	F	RunNo: 95	677				
Prep Date: 3/29/2023	Analysis Date: 3/	30/2023	\$	SeqNo: 34	62620	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	10	10.00		102	69	147			
Sample ID: LCS-74015	SampType: LC	s	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 74	015	F	RunNo: 95	677				
Prep Date: 3/29/2023	Analysis Date: 3/	30/2023	8	SeqNo: 34	62621	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49 10	50.00	0	98.5	61.9	130			
Surr: DNOP	5.5	5.000		110	69	147			
Sample ID: MB-74042	SampType: MI	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 74	042	F	RunNo: 95	708				
Prep Date: 3/30/2023	Analysis Date: 3/	31/2023	9	SeqNo: 34	65049	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	9.7	10.00		97.5	69	147			
Sample ID: LCS-74042	SampType: LC	s	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 74	042	F	RunNo: 95	708				
Prep Date: 3/30/2023	Analysis Date: 3/	31/2023	\$	SeqNo: 34	65054	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39 10	50.00	0	78.9	61.9	130			
Surr: DNOP	4.7	5.000		93.5	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
- 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 11

Hall Environmental Analysis Laboratory, Inc.

2303D22 04-Apr-23

WO#:

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Project: Laguna	Salado 22 Federal	1 4							
Sample ID: Ics-74005	SampType: Lo	cs	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 74	4005	F	RunNo: 95	5669				
Prep Date: 3/29/2023	Analysis Date: 3	/30/2023	5	SeqNo: 34	163607	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00	0	88.5	70	130			
Surr: BFB	1900	1000		194	37.7	212			
Sample ID: mb-74005	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 74	4005	F	RunNo: 95	5669				
Prep Date: 3/29/2023	Analysis Date: 3	3/30/2023	S	SeqNo: 34	463608	Units: mg/K	g		
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		103	37.7	212			
Sample ID: Ics-74028	SampType: Lo	cs	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 74	4028	F	RunNo: 95	5705				
Prep Date: 3/30/2023	Analysis Date: 3	3/31/2023		SeqNo: 34	164993	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	90.8	70	130			
Surr: BFB	1900	1000		195	37.7	212			
Sample ID: mb-74028	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 74	4028	F	RunNo: 95	5705				
Prep Date: 3/30/2023	Analysis Date: 3	/31/2023	5	SeqNo: 34	164994	Units: mg/K	g		
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		102	37.7	212			

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
- 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 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303D22**

04-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Sample ID: LCS-74005	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 74 (005	F	RunNo: 9	5669				
Prep Date: 3/29/2023	Analysis [Date: 3/ 3	30/2023		SeqNo: 34	463614	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.91	0.050	1.000	0	90.9	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	70	130			
Sample ID: mb-74005	Samp ⁻	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volati	iles		

Sample ID: mb-74005	Samp1	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 74 0	005	F	RunNo: 9	5669				
Prep Date: 3/29/2023	Analysis D	Date: 3/ 3	30/2023	5	SeqNo: 34	1 63615	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	0.92		1.000		91.8	70	130			

Sample ID: LCS-74028	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	n ID: 740)28	F	RunNo: 95	5705					
Prep Date: 3/30/2023	Analysis D	Date: 3/3	31/2023	5	SeqNo: 34	165021	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	93.3	80	120				
Toluene	0.92	0.050	1.000	0	92.3	80	120				
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120				
Xylenes, Total	2.7	0.10	3.000	0	90.9	80	120				
Surr: 4-Bromofluorobenzene	0.91		1.000		91.5	70	130				

Sample ID: mb-74028	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 740)28	F	RunNo: 9	5705					
Prep Date: 3/30/2023	Analysis D	oate: 3/3	31/2023	5	SeqNo: 34	465022	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	0.93		1.000		92.8	70	130				

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
- 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 10 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303D22**

04-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Sample ID: 2303d22-006ams Client ID: BH23-10 1' Prep Date: 3/30/2023	•	Гуре: м.s h ID: 740 Date: 3/ 3		F	tCode: EF RunNo: 9 SeqNo: 3	5705	8021B: Volati Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9911	0	96.2	68.8	120			
Toluene	0.95	0.050	0.9911	0	95.5	73.6	124			
Ethylbenzene	0.95	0.050	0.9911	0	96.0	72.7	129			
Xylenes, Total	2.8	0.099	2.973	0	95.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9911		89.7	70	130			

Sample ID: 2303d22-006amsc	Samp	mpType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: BH23-10 1'	Batc	h ID: 74 ()28	F	RunNo: 9	5705					
Prep Date: 3/30/2023	Analysis I	Date: 3/ 3	31/2023	5	SeqNo: 34	465027	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.97	0.025	0.9891	0	97.6	68.8	120	1.27	20		
Toluene	0.97	0.049	0.9891	0	98.0	73.6	124	2.34	20		
Ethylbenzene	0.98	0.049	0.9891	0	98.7	72.7	129	2.53	20		
Xylenes, Total	2.9	0.099	2.967	0	97.9	75.7	126	2.04	20		
Surr: 4-Bromofluorobenzene	0.90		0.9891		90.7	70	130	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
- 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 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/4/2025 2:49:23 PM

EADO	RATORT	Website: ww	w.hallenvi	ronment	al.com			
Client Name:	Vertex Resources Services, Inc.	Work Order Num	ber: 230	3D22			RcptNo	: 1
Received By:	Juan Rojas	3/28/2023 7:55:00	AM		George	3		
Completed By:	Desiree Dominguez	3/28/2023 8:36:45	АМ		TD:	*		
Reviewed By:	DAD	3/28/23						
Chain of Cus	stody							
1. Is Chain of C	sustody complete?		Yes		No	V	Not Present	
2. How was the	sample delivered?		Cou	<u>rier</u>				
Log In						_		
3. Was an atten	npt made to cool the sam	ples?	Yes	V	No		NA 🗌	
4. Were all sam	ples received at a temper	ature of >0° C to 6.0°C	Yes	V	No		NA 🗌	
5. Sample(s) in-	proper container(s)?		Yes	V	No			
6. Sufficient sam	nple volume for indicated	test(s)?	Yes	V	No			
7. Are samples ((except VOA and ONG) p	roperly preserved?	Yes	V	No [
8. Was preserva	tive added to bottles?		Yes		No	~	NA 🗌	
9. Received at le	east 1 vial with headspace	e <1/4" for AQ VOA?	Yes		No [NA 🗹	
10. Were any sar	mple containers received	broken?	Yes		No	V	# of preserved	
	ork match bottle labels? ancies on chain of custod	w	Yes	✓	No [bottles checked for pH:	r >12 unless noted)
	correctly identified on Cha		Yes	V	No [٦	Adjusted?	2 411000 1000
	t analyses were requeste		Yes	V	No	_ 1		
	ng times able to be met? ustomer for authorization.)	Yes	✓	No [Checked by:	JW3/28/23
Special Handl	ling (if applicable)							
15. Was client no	otified of all discrepancies	with this order?	Yes		No		NA 🗹	
By Who	,	Date Via:	:	ail 🗌	Phone [Fax	☐ In Person	
Regard Client I	ing:							
16 Additional ra	marka							

16. Additional remarks:

Client information missing on COC. -DAD 3/28/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present	Morty		

			stody Record	Turn-Around	Time:			HALL ENVIRONMENTAL														
Client:	Verte	x (De	evon)	☑ Standard	Rush	5 Day	4													TO		•
Mailing	Address	s: on	file		l)(Rush e: Salado 7	2 Federal	4	6000	490	01 H							al.co e, NN	m /I 871	09			
			V	Project #: 23E -	01414				Τe	l. 50	5-34	5-39	10.000			10001	100000	4107				(4.904)
Phone email o	· · · · · · · · · · · · · · · · · · ·			Project Mana	5 1070	1 1 1				Ana					SIS	Requ	uest		164	1141		
	Package:		□ Level 4 (Full Validation)	1	Stallings	,		TMB's (8021)	O/MRO	PCB's		8270SIMS		PO ₄ , SO ₄	1 12 H	. 71	nt/Absen	INV TOTAL TOTAL	# #C	11 (%)		
□ NEL	AC	☐ Az Co ☐ Other	mpliance	Sampler: On Ice:	SPC —Yes	□ No		-	RO / DF	es/8082	504.1)			3, NO ₂ ,		(A0	(Prese					
	(Type)			# of Coolers: Cooler Temp	O(including CF):	28-0-1=1	5-7 (°C)	RIEX) MTBE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CI,F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2303T	. No. >2名	REE)	TPH:	8081	EDB	PAH	RGR (8260	8270	Total					
3/24/2	9:30	Soil	BH23-08 0'	400 jan	ia	-001		V	\checkmark					\checkmark		e)						
	10:00		BH23-08 1'		sen July 1 Ene	-002					A -		ve l	la de	JATE	ne bi	5.00	James 1	(V) H	v.)		
	10:10	7,19	BH23-09 0'			-003										h = 1		4	11 di) — —		
	10:20		BH23-09 1'			-004	e (later a la marchia	Ш	Ш				111		101	/ (a 104 - 11	1 1	1-3-11				
	10:35		BH23-10 0'			-005			Ш						1 1	727		7 11 2				
	10:50	1	BH 23-10 1'			-006		1	'		_	Ш	-	1	_	Early 1		V 10 1000			11	_
		9				The le	- 10 0			_	+	\dashv	\dashv				10.0			9.3	+	
																HINT	7			Ţ,	1	
								-		\dashv					1.76	Comment			+	200	+	-
						E V. D.		 				Selliji II				2.1			1/2	110	+	+
Date: 3/24/23		Relinquish	ly Cartan	Received by:	Via:	Date 3 m 3	Time	Rer	nark	s: irec	t bi	11	De	vor	1,	pe	nd	ing	N	1/0	#	
Date:	Time:	Relinquish	en by:	Received by:	from e	Date /3/8/2	Time 3 7.55		تح	\ 	ar	Hau	r (9	<u>ر</u> م		rux.	. Ga	21				



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

OrderNo.: 2304340

April 19, 2023

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

FAX:

RE: Laguna Salado Federal 4

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/7/2023 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 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-11 0'

Project: Laguna Salado Federal 4 **Collection Date:** 4/5/2023 9:15:00 AM 2304340-001 Lab ID: Matrix: SOIL Received Date: 4/7/2023 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	9.2	mg/Kg	1	4/11/2023 12:30:08 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/11/2023 12:30:08 AM
Surr: DNOP	92.1	69-147	%Rec	1	4/11/2023 12:30:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/10/2023 11:10:00 PM
Surr: BFB	87.3	37.7-212	%Rec	1	4/10/2023 11:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/10/2023 11:10:00 PM
Toluene	ND	0.047	mg/Kg	1	4/10/2023 11:10:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/10/2023 11:10:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/10/2023 11:10:00 PM
Surr: 4-Bromofluorobenzene	87.8	70-130	%Rec	1	4/10/2023 11:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	620	60	mg/Kg	20	4/11/2023 10:55:17 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: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-11 2'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 9:20:00 AM

 Lab ID:
 2304340-002
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 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	9.9	mg/Kg	1	4/11/2023 12:40:44 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/11/2023 12:40:44 AM
Surr: DNOP	91.6	69-147	%Rec	1	4/11/2023 12:40:44 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/10/2023 11:31:00 PM
Surr: BFB	89.8	37.7-212	%Rec	1	4/10/2023 11:31:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/10/2023 11:31:00 PM
Toluene	ND	0.050	mg/Kg	1	4/10/2023 11:31:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/10/2023 11:31:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/10/2023 11:31:00 PM
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	4/10/2023 11:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1600	60	mg/Kg	20	4/11/2023 11:07:42 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: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-12 0'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 10:10:00 AM

 Lab ID:
 2304340-003
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 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	9.9	mg/Kg	1	4/11/2023 12:51:20 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/11/2023 12:51:20 AM
Surr: DNOP	97.8	69-147	%Rec	1	4/11/2023 12:51:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2023 12:14:00 AM
Surr: BFB	91.0	37.7-212	%Rec	1	4/11/2023 12:14:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/11/2023 12:14:00 AM
Toluene	ND	0.049	mg/Kg	1	4/11/2023 12:14:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2023 12:14:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2023 12:14:00 AM
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	4/11/2023 12:14:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	4/11/2023 11:20:07 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 3 of 14

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-12 2'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 10:15:00 AM

 Lab ID:
 2304340-004
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/11/2023 1:01:57 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/11/2023 1:01:57 AM
Surr: DNOP	82.0	69-147	%Rec	1	4/11/2023 1:01:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2023 12:36:00 AM
Surr: BFB	91.2	37.7-212	%Rec	1	4/11/2023 12:36:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/11/2023 12:36:00 AM
Toluene	ND	0.049	mg/Kg	1	4/11/2023 12:36:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2023 12:36:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2023 12:36:00 AM
Surr: 4-Bromofluorobenzene	89.0	70-130	%Rec	1	4/11/2023 12:36:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	920	60	mg/Kg	20	4/11/2023 11:57:21 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 4 of 14

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-12 3'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 10:20:00 AM

 Lab ID:
 2304340-005
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/11/2023 1:12:35 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/11/2023 1:12:35 AM
Surr: DNOP	101	69-147	%Rec	1	4/11/2023 1:12:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2023 12:57:00 AM
Surr: BFB	87.4	37.7-212	%Rec	1	4/11/2023 12:57:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/11/2023 12:57:00 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2023 12:57:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2023 12:57:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2023 12:57:00 AM
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	1	4/11/2023 12:57:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	770	60	mg/Kg	20	4/12/2023 12:09:45 AM

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 5 of 14

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-13 0'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 10:55:00 AM

 Lab ID:
 2304340-006
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 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	9.2	mg/Kg	1	4/11/2023 1:23:11 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/11/2023 1:23:11 AM
Surr: DNOP	88.2	69-147	%Rec	1	4/11/2023 1:23:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2023 1:19:00 AM
Surr: BFB	88.1	37.7-212	%Rec	1	4/11/2023 1:19:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/11/2023 1:19:00 AM
Toluene	ND	0.049	mg/Kg	1	4/11/2023 1:19:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2023 1:19:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2023 1:19:00 AM
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	4/11/2023 1:19:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	100	60	mg/Kg	20	4/12/2023 12:46:58 AM

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 6 of 14

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-13 1'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 11:17:00 AM

 Lab ID:
 2304340-007
 Matrix: SOIL
 Received Date: 4/7/2023 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	10	mg/Kg	1	4/11/2023 1:44:21 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/11/2023 1:44:21 AM
Surr: DNOP	99.8	69-147	%Rec	1	4/11/2023 1:44:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2023 1:40:00 AM
Surr: BFB	89.2	37.7-212	%Rec	1	4/11/2023 1:40:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/11/2023 1:40:00 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2023 1:40:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2023 1:40:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/11/2023 1:40:00 AM
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	4/11/2023 1:40:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	450	60	mg/Kg	20	4/12/2023 12:59:23 AM

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 7 of 14

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-13 2'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 11:33:00 AM

 Lab ID:
 2304340-008
 Matrix: SOIL
 Received Date: 4/7/2023 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	9.8	mg/Kg	1	4/11/2023 1:55:01 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/11/2023 1:55:01 AM
Surr: DNOP	91.6	69-147	%Rec	1	4/11/2023 1:55:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2023 2:02:00 AM
Surr: BFB	87.2	37.7-212	%Rec	1	4/11/2023 2:02:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/11/2023 2:02:00 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2023 2:02:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2023 2:02:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2023 2:02:00 AM
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	4/11/2023 2:02:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1500	60	mg/Kg	20	4/12/2023 1:11:48 AM

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: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 0'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 2:20:00 PM

 Lab ID:
 2304340-009
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/11/2023 2:05:39 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/11/2023 2:05:39 AM
Surr: DNOP	91.8	69-147	%Rec	1	4/11/2023 2:05:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2023 2:23:00 AM
Surr: BFB	96.5	37.7-212	%Rec	1	4/11/2023 2:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/11/2023 2:23:00 AM
Toluene	ND	0.048	mg/Kg	1	4/11/2023 2:23:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2023 2:23:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/11/2023 2:23:00 AM
Surr: 4-Bromofluorobenzene	86.9	70-130	%Rec	1	4/11/2023 2:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	13000	600	mg/Kg	200	4/12/2023 5:18:24 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 9 of 14

Date Reported: 4/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 1'

 Project:
 Laguna Salado Federal 4
 Collection Date: 4/5/2023 2:35:00 PM

 Lab ID:
 2304340-010
 Matrix: SOIL
 Received Date: 4/7/2023 7:30:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/11/2023 2:16:19 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/11/2023 2:16:19 AM
Surr: DNOP	86.9	69-147	%Rec	1	4/11/2023 2:16:19 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/11/2023 2:45:00 AM
Surr: BFB	85.7	37.7-212	%Rec	1	4/11/2023 2:45:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/11/2023 2:45:00 AM
Toluene	ND	0.049	mg/Kg	1	4/11/2023 2:45:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/11/2023 2:45:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/11/2023 2:45:00 AM
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	4/11/2023 2:45:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	4900	150	mg/Kg	50	4/13/2023 10:45:07 AM

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 10 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304340 19-Apr-23

Client: Devon Energy

Project: Laguna Salado Federal 4

Sample ID: MB-74258 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74258 RunNo: 95942

Prep Date: 4/11/2023 Analysis Date: 4/11/2023 SeqNo: 3474458 Units: mq/Kg

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

Chloride ND 1.5

Sample ID: LCS-74258 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74258 RunNo: 95942

Prep Date: 4/11/2023 Analysis Date: 4/11/2023 SeqNo: 3474459 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 96.9 90 110

Sample ID: MB-74272 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74272 RunNo: 95984

Prep Date: 4/12/2023 Analysis Date: 4/12/2023 SeqNo: 3475680 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74272 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74272 RunNo: 95984

Prep Date: 4/12/2023 Analysis Date: 4/12/2023 SeqNo: 3475681 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.1 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 11 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304340**

19-Apr-23

Client: Devon Energy

Project: Laguna Salado Federal 4

Sample ID: LCS-74202 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74202 RunNo: 95894

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472132 Units: %Rec

SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result SPK value LowLimit Qual Surr: DNOP 4.5 5.000 90.2 69 147

Sample ID: MB-74202 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74202 RunNo: 95894 Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472133 Units: %Rec %REC **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD Qual

Surr: DNOP 8.7 10.00 87.2 69 147

10.00

Sample ID: LCS-74212 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 74212 Prep Date: Analysis Date: 4/10/2023 SeqNo: 3472642 Units: mg/Kg 4/7/2023 SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 10 0 101 61.9 50.00 Surr: DNOP 5.6 5.000 113 69 147

Sample ID: MB-74212 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74212 RunNo: 95894 Units: mg/Kg Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472644 %RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Qualifiers:

Surr: DNOP

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.

10

B Analyte detected in the associated Method Blank

102

69

147

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304340 19-Apr-23**

Client: Devon Energy

Project: Laguna Salado Federal 4

Sample ID: Ics-74206 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 74206 RunNo: 95904 Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472695 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 n 92.2 70 130 Surr: BFB 1900 1000 191 37.7 212

Sample ID: mb-74206 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 74206 RunNo: 95904 Prep Date: Analysis Date: 4/10/2023 4/7/2023 SeqNo: 3472696 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 890 1000 88.9 37.7 212

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

Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304340** *19-Apr-23*

Client: Devon Energy

Project: Laguna Salado Federal 4

Sample ID: Ics-74206	SampType: LCS			Tes	tCode: EF					
Client ID: LCSS	Batch ID: 74206			F	RunNo: 9					
Prep Date: 4/7/2023	Analysis Date: 4/10/2023			SeqNo: 3472712			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.89	0.050	1.000	0	88.7	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	70	130			

Sample ID: mb-74206	SampT	Гуре: МЕ	pe: MBLK TestCode: El			EPA Method 8021B: Volatiles					
Client ID: PBS	Batcl	h ID: 74 2	206	RunNo: 95904							
Prep Date: 4/7/2023	Analysis D	Date: 4/	10/2023	5	SeqNo: 34	472713	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	0.88		1.000		88.3	70	130				

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
- 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 14 of 14



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/4/2025 2:49:23 PM

LABOR			i	Website: www.h	allenvir	onmen	ıtal.com			
Client Name:	Devon Ene	rgy	Work	Order Numbe	r: 2304	340	-		RcptNo	: 1
Received By:	Tracy Cas	arrubias	4/7/202	3 7:30:00 AM						
Completed By:	Tracy Cas	arrubias	4/7/202	3 7:58:26 AM						
Reviewed By: δ	24-46	-4/7/2	3							
Chain of Custe		4/7/23	•							
1. Is Chain of Cus	stody compl	lete?			Yes		No [V	Not Present 🗌	
2. How was the sa	ample deliv	ered?			Cou	ier				
<u>Log In</u>							_	_		
Was an attemp	t made to c	ool the sampl	les?		Yes	\checkmark	No [_	NA 🗌	
4. Were all sample	es received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No [na 🗆	
5. Sample(s) in pr	oper contai	ner(s)?			Yes	V	No [
6. Sufficient samp	le volume fo	or indicated te	est(s)?		Yes	V	No []		
7. Are samples (ex	cept VOA	and ONG) pro	perly preserve	ed?	Yes	V	No [
8. Was preservativ	ve added to	bottles?			Yes		No 🛚		NA 🗌	
9. Received at lea	st 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No [NA 🗹	
0. Were any samp	ole containe	ers received b	roken?		Yes		No [#	# of preserved	
1.Does paperworl (Note discrepan					Yes	✓	No [_	oottles checked for pH: (<2 o	r >12 unless noted)
2. Are matrices co					Yes	V	No [Adjusted?	i i iz dipasos notod,
3. Is it clear what a	•		•		Yes	✓	No [_		1 (
4. Were all holding (If no, notify cus	times able	to be met?			Yes	✓	No [Checked by:	14/7/2
Special Handlin										
15. Was client noti			vith this order?	•	Yes		No [NA 🗹	
Person N	lotified:			Date:		-		mour		
By Whon	ո:			Via:		ail 🗀] Phone [] I	ax [In Person	
Regardin	g:					Through the same				
Client Ins	tructions:	Missing maili	ng address, pl	none number,	and En	ail on	COC - TMC	4/7/23		
16. Additional rem	arks:									
17. <u>Cooler Inform</u>	ation									
Cooler No	Temp °C	Condition	Seal Intact		Seal D	ate	Signed By	1		
1	5.4	Good	Yes	Yogi				1		

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL						
Client: Devun/Vertex	Standard Rush 5 mm	ANALYSIS LABORATORY						
	Project Name:	www.hallenvironmental.com						
Mailing Address: On File	Standard Rush 5000 Project Name: Laguna Salado Federal 4 Project*:	4901 Hawkins NE - Albuquerque, NM 87109						
	Project#:	Tel. 505-345-3975 Fax 505-345-4107						
Phone #:	23E-01414	Analysis Request						
email or Fax#:	Project Manager:	S SO ₄ SO ₄						
QA/QC Package: □ Standard □ Level 4 (Full Validation)	Kent Stallings	SSIMS PCB's PCB's PO4,						
Accreditation: Az Compliance	Sampler: 8 M	TMB' 10 / DR(1) / 10 / 10 / 10 / 10 / 10 / 10 / 10 /						
□ NELAC □ Other	On Ice: Z Yes D No yog	E/ (Pr (OA) 1						
□ EDD (Type)	# of Coolers: \ Cooler Temp(including CF): 5 4 - Ø; 5 4 (°C)	Mets Me						
	Code Templificating Cry. 3-4 (C)							
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 2304340	ETEX/ MTBE / TMB TPH:8015D(GRO / DR 8081 Pesticides/8082 EDB (Method 504.1) PAHs by 8310 or 827 RCRA 8 Metals Q F, Br, NO ₃ , NO ₂ , 8260 (VOA) Total Coliform (Preser						
4/5/22 9:15 Soil BH23-11 0'	4 oz jar Ice 001							
4/5/23 9:20 1 13 423-11 2	002							
45/0 10:10 BH 23-12 0'	003							
4/5/23 10:15 RH 23-12 2"	004							
45/23/0:20 BH23-12 3'	200							
4/5/2 10:55 BH 23-13 0'	006							
4/5/23 11:17 BH23-13 1'	007							
4(572) 11:33 QH23-13 2'	008							
4/5/23 14:20 BH 23 - 14 0'	000							
4/5/23 14:35 BH 23 - 14 1'	010							
	100 AC 10							
Date: Time: Relinquished by: 4503 18:10 Stept Mc Gd	Received by: Via: Date Time	Remarks: Direct bill Deven, w/o #21134488						
Date: Time: Relinquished by:	Received by: Via: Date Time 730	C.C. SMccarty@vertex.ca pg 10f1						



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

April 27, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Laguna Salado 22 Federal 4 OrderNo.: 2304662

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 4/15/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 8:55:00 AM

 Lab ID:
 2304662-001
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	4/18/2023 11:08:20 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	4/18/2023 11:08:20 PM
Surr: DNOP	98.8	69-147	%Rec	1	4/18/2023 11:08:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 6:57:09 PM
Surr: BFB	86.1	37.7-212	%Rec	1	4/18/2023 6:57:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 6:57:09 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 6:57:09 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 6:57:09 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/18/2023 6:57:09 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	4/18/2023 6:57:09 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	6400	300	mg/Kg	100	4/19/2023 8:55:38 AM

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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

pple pH Not In Range Page 1 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 9:24:00 AM

 Lab ID:
 2304662-002
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	4/18/2023 11:19:00 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/18/2023 11:19:00 PM
Surr: DNOP	76.1	69-147	%Rec	1	4/18/2023 11:19:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 7:20:29 PM
Surr: BFB	86.0	37.7-212	%Rec	1	4/18/2023 7:20:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 7:20:29 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 7:20:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 7:20:29 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/18/2023 7:20:29 PM
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	4/18/2023 7:20:29 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 10:37:01 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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-19 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 9:30:00 AM

 Lab ID:
 2304662-003
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: PRD				
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	4/19/2023 3:52:18 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/19/2023 3:52:18 PM
Surr: DNOP	84.9	69-147	%Rec	1	4/19/2023 3:52:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/18/2023 7:43:49 PM
Surr: BFB	106	37.7-212	%Rec	1	4/18/2023 7:43:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	4/18/2023 7:43:49 PM
Toluene	ND	0.047	mg/Kg	1	4/18/2023 7:43:49 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/18/2023 7:43:49 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/18/2023 7:43:49 PM
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	4/18/2023 7:43:49 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	6400	300	mg/Kg	100	4/19/2023 9:08:03 AM

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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 11:40:00 AM

 Lab ID:
 2304662-004
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/19/2023 4:02:57 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/19/2023 4:02:57 PM
Surr: DNOP	75.2	69-147	%Rec	1	4/19/2023 4:02:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/18/2023 8:07:12 PM
Surr: BFB	93.5	37.7-212	%Rec	1	4/18/2023 8:07:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 8:07:12 PM
Toluene	ND	0.050	mg/Kg	1	4/18/2023 8:07:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/18/2023 8:07:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 8:07:12 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	4/18/2023 8:07:12 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	10000	600	mg/Kg	200	4/19/2023 9:20:27 AM

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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

opering Limit Page 4 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 12:13:00 PM

 Lab ID:
 2304662-005
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 4/19/2023 4:13:34 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/19/2023 4:13:34 PM 69-147 Surr: DNOP 92.0 %Rec 1 4/19/2023 4:13:34 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/18/2023 8:30:40 PM 4.8 mg/Kg 1 Surr: BFB 92.5 37.7-212 %Rec 1 4/18/2023 8:30:40 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.024 mg/Kg 4/18/2023 8:30:40 PM 1 Toluene ND 0.048 mg/Kg 1 4/18/2023 8:30:40 PM Ethylbenzene ND 0.048 mg/Kg 1 4/18/2023 8:30:40 PM Xylenes, Total ND 0.096 mg/Kg 1 4/18/2023 8:30:40 PM 4/18/2023 8:30:40 PM Surr: 4-Bromofluorobenzene 94.5 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 4/18/2023 11:14:03 PM ma/Ka 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 5 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 12:23:00 PM

 Lab ID:
 2304662-006
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/20/2023 10:05:49 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/20/2023 10:05:49 AM
Surr: DNOP	71.4	69-147	%Rec	1	4/20/2023 10:05:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/18/2023 8:54:08 PM
Surr: BFB	98.5	37.7-212	%Rec	1	4/18/2023 8:54:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 8:54:08 PM
Toluene	ND	0.050	mg/Kg	1	4/18/2023 8:54:08 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/18/2023 8:54:08 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 8:54:08 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	4/18/2023 8:54:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/18/2023 11:26:24 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 6 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 12:32:00 PM

 Lab ID:
 2304662-007
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/19/2023 4:45:31 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 4:45:31 PM
Surr: DNOP	135	69-147	%Rec	1	4/19/2023 4:45:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/18/2023 9:17:31 PM
Surr: BFB	99.2	37.7-212	%Rec	1	4/18/2023 9:17:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/18/2023 9:17:31 PM
Toluene	ND	0.049	mg/Kg	1	4/18/2023 9:17:31 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/18/2023 9:17:31 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/18/2023 9:17:31 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	4/18/2023 9:17:31 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/19/2023 11:46:28 AM

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 7 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 12:35:00 PM

 Lab ID:
 2304662-008
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/26/2023 10:55:36 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/26/2023 10:55:36 AM
Surr: DNOP	90.2	69-147	%Rec	1	4/26/2023 10:55:36 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/18/2023 9:40:49 PM
Surr: BFB	99.9	37.7-212	%Rec	1	4/18/2023 9:40:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/18/2023 9:40:49 PM
Toluene	ND	0.049	mg/Kg	1	4/18/2023 9:40:49 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/18/2023 9:40:49 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/18/2023 9:40:49 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	4/18/2023 9:40:49 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/19/2023 11:58:52 AM

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 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 1:15:00 PM

 Lab ID:
 2304662-009
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/19/2023 12:01:36 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 12:01:36 AM
Surr: DNOP	83.6	69-147	%Rec	1	4/19/2023 12:01:36 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/18/2023 10:39:00 PM
Surr: BFB	90.1	37.7-212	%Rec	1	4/18/2023 10:39:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/18/2023 10:39:00 PM
Toluene	ND	0.048	mg/Kg	1	4/18/2023 10:39:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/18/2023 10:39:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/18/2023 10:39:00 PM
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	1	4/18/2023 10:39:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	600	61	mg/Kg	20	4/19/2023 12:11:17 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 9 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 1:15:00 PM

 Lab ID:
 2304662-010
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	4/19/2023 12:33:39 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/19/2023 12:33:39 AM
Surr: DNOP	92.7	69-147	%Rec	1	4/19/2023 12:33:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/18/2023 11:44:00 PM
Surr: BFB	93.3	37.7-212	%Rec	1	4/18/2023 11:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/18/2023 11:44:00 PM
Toluene	ND	0.047	mg/Kg	1	4/18/2023 11:44:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/18/2023 11:44:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/18/2023 11:44:00 PM
Surr: 4-Bromofluorobenzene	85.2	70-130	%Rec	1	4/18/2023 11:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	21000	15000	mg/Kg	5000	4/21/2023 3:37:57 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 10 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-33 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 1:35:00 PM

 Lab ID:
 2304662-011
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/19/2023 12:44:21 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 12:44:21 AM
Surr: DNOP	77.9	69-147	%Rec	1	4/19/2023 12:44:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/19/2023 12:49:00 AM
Surr: BFB	85.4	37.7-212	%Rec	1	4/19/2023 12:49:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/19/2023 12:49:00 AM
Toluene	ND	0.050	mg/Kg	1	4/19/2023 12:49:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/19/2023 12:49:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/19/2023 12:49:00 AM
Surr: 4-Bromofluorobenzene	83.2	70-130	%Rec	1	4/19/2023 12:49:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	110	60	mg/Kg	20	4/19/2023 12:36:06 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 11 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-34 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 1:40:00 PM

 Lab ID:
 2304662-012
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/19/2023 11:23:03 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 11:23:03 AM
Surr: DNOP	69.9	69-147	%Rec	1	4/19/2023 11:23:03 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 1:10:00 AM
Surr: BFB	90.0	37.7-212	%Rec	1	4/19/2023 1:10:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/19/2023 1:10:00 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 1:10:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 1:10:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/19/2023 1:10:00 AM
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	4/19/2023 1:10:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/19/2023 1:13:20 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 12 of 21

Date Reported: 4/27/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-38 0'

 Project:
 Laguna Salado 22 Federal 4
 Collection Date: 4/13/2023 2:45:00 PM

 Lab ID:
 2304662-013
 Matrix: SOIL
 Received Date: 4/15/2023 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/19/2023 1:05:48 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 1:05:48 AM
Surr: DNOP	73.2	69-147	%Rec	1	4/19/2023 1:05:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/19/2023 1:32:00 AM
Surr: BFB	91.3	37.7-212	%Rec	1	4/19/2023 1:32:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	4/19/2023 1:32:00 AM
Toluene	ND	0.046	mg/Kg	1	4/19/2023 1:32:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	4/19/2023 1:32:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	4/19/2023 1:32:00 AM
Surr: 4-Bromofluorobenzene	85.2	70-130	%Rec	1	4/19/2023 1:32:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	130	60	mg/Kg	20	4/19/2023 1:51:20 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 13 of 21

Hall Environmental Analysis Laboratory, Inc.

2304662

WO#:

27-Apr-23

Client: Vertex Resources Services, Inc. **Project:** Laguna Salado 22 Federal 4

Sample ID: MB-74407 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74407 RunNo: 96135

Prep Date: 4/19/2023 Analysis Date: 4/19/2023 SeqNo: 3482355 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-74407 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74407 RunNo: 96135

Units: mg/Kg Prep Date: 4/19/2023 Analysis Date: 4/19/2023 SeqNo: 3482356

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

Chloride 14 1.5 15.00 95.5 110

Sample ID: MB-74420 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74420 RunNo: 96171

Prep Date: 4/19/2023 Analysis Date: 4/19/2023 SeqNo: 3482481 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74420 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74420 RunNo: 96171

Prep Date: Analysis Date: 4/19/2023 SeqNo: 3482482 4/19/2023 Units: mg/Kg

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

14 Chloride 1.5 15.00 n 94.2 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- 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 14 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304662**

27-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Sumple ID: LCS-74366				
Prep Date: 4/17/2023	Sample ID: 2304662-009AMS	SampType: MS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Analyte	Client ID: BH23-31 0'	Batch ID: 74375	RunNo: 96131	
Diesel Range Organics (DRO)	Prep Date: 4/17/2023	Analysis Date: 4/19/2023	SeqNo: 3481330	Units: mg/Kg
Surr. DNOP	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Sample ID: LCS-74366 SampType: LCS	Diesel Range Organics (DRO)	41 10 49.90	0 81.6 54.2	135
Client ID: LCSS	Surr: DNOP	4.5 4.990	90.8 69	147
Prep Date: 4/17/2023	Sample ID: LCS-74366	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Jiesel Range Organics (DRO) 43 10 50.00 0 86.7 61.9 130 Surr: DNOP 5.3 5.000 106 69 147 Sample ID: LCS-74375 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Prop Date: 4/17/2023 Analysis Date: 4/18/2023 RunNo: 96131 Units: mg/Kg Analyte Result PCL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 41 10 50.00 0 81.9 61.9 130	Client ID: LCSS	Batch ID: 74366	RunNo: 96131	
Diesel Range Organics (DRO)	Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3481380	Units: mg/Kg
Sample D: LCS-74375 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Sample D: LCS-74375 SampType: LCS Batch D: 74375 RunNo: 96131 Units: mg/Kg	Diesel Range Organics (DRO)	43 10 50.00	0 86.7 61.9	130
Client ID: LCSS Batch ID: 74375 RunNo: 96131 SeqNo: 3481381 Units: mg/Kg	Surr: DNOP	5.3 5.000	106 69	147
Prep Date: 4/17/2023	Sample ID: LCS-74375	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Analyte	Client ID: LCSS	Batch ID: 74375	RunNo: 96131	
Diesel Range Organics (DRO)	Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3481381	Units: mg/Kg
Surr: DNOP	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Sample ID: MB-74366 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74366 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481384 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Motor Oil Range Organics (DRO) ND 10 108 69 147 47 <td>Diesel Range Organics (DRO)</td> <td>41 10 50.00</td> <td>0 81.9 61.9</td> <td>130</td>	Diesel Range Organics (DRO)	41 10 50.00	0 81.9 61.9	130
Client ID: PBS Batch ID: 74366 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481384 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 11 10.00 108 69 147 Sample ID: MB-74375 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74375 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 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	4.3 5.000	85.4 69	147
Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481384 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) ND 10 10 108 69 147	Sample ID: MB-74366	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Analyte	Client ID: PBS	Batch ID: 74366	RunNo: 96131	
Diesel Range Organics (DRO) ND 10 ND 50 Surr: DNOP 11 10.00 108 69 147	Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3481384	Units: mg/Kg
Wotor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 108 69 147 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74375 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 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	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP 11 10.00 108 69 147 Sample ID: MB-74375 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74375 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 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	Diesel Range Organics (DRO)	ND 10		
Sample ID: MB-74375 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74375 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 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	Motor Oil Range Organics (MRO)	ND 50		
Client ID: PBS Batch ID: 74375 RunNo: 96131 Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 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	11 10.00	108 69	147
Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481385 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	Sample ID: MB-74375	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
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	Client ID: PBS	Batch ID: 74375	RunNo: 96131	
Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50	Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3481385	Units: mg/Kg
Motor Oil Range Organics (MRO) ND 50	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
	Diesel Range Organics (DRO)	ND 10		
Surr: DNOP 8.7 10.00 86.6 69 147	Motor Oil Range Organics (MRO)	ND 50		
	Surr: DNOP	8.7 10.00	86.6 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
- 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 15 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304662**

27-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Sample ID: 2304662-009AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BH23-31 0'	Batch	ID: 74 3	375	R	RunNo: 90	6131				
Prep Date: 4/17/2023	Analysis D	ate: 4/	19/2023	S	SeqNo: 34	481403	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	9.0	45.00	0	68.9	54.2	135	27.0	29.2	
Surr: DNOP	3.2		4.500		70.9	69	147	0	0	
Sample ID: MB-74388	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 74 :	388	R	RunNo: 90	6159				
Prep Date: 4/18/2023	Analysis D	ate: 4/	19/2023	S	SeqNo: 34	481896	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	8.1		10.00		81.0	69	147			
Sample ID: LCS-74388	SampT	ype: LC	s	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 74 3	388	R	RunNo: 90	6159				
Prep Date: 4/18/2023	Analysis D	ate: 4/	19/2023	S	SeqNo: 3	481899	Units: mg/K	(g		
							_	_		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result 46	PQL 10	SPK value 50.00	SPK Ref Val	%REC 91.4	LowLimit 61.9	HighLimit	%RPD	RPDLimit	Qual
								%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 4.8		50.00 5.000	0	91.4 95.5	61.9 69	130			Qual
Diesel Range Organics (DRO) Surr: DNOP	46 4.8 SampT	10	50.00 5.000	0 Test	91.4 95.5	61.9 69 PA Method	130 147			Qual
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS	46 4.8 SampT	10 ype: MS	50.00 5.000	0 Test	91.4 95.5 tCode: El	61.9 69 PA Method 6159	130 147	esel Range		Qual
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0'	46 4.8 SampT Batch	10 ype: MS	50.00 5.000 3 388 20/2023	0 Test	91.4 95.5 tCode: EF RunNo: 9 6 SeqNo: 3 6	61.9 69 PA Method 6159	130 147 8015M/D: Di e	esel Range		Qual
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023	46 4.8 SampT Batch Analysis D	10 ype: MS ID: 74 3 ate: 4 /	50.00 5.000 3 388 20/2023	0 Tesi R S	91.4 95.5 tCode: EF RunNo: 9 6 SeqNo: 3 6	61.9 69 PA Method 6159 481903	130 147 8015M/D: Die Units: mg/K	esel Rango	e Organics	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023 Analyte	46 4.8 SampTy Batch Analysis Da	10 ype: MS ID: 74 ; ate: 4 /	50.00 5.000 3 388 20/2023 SPK value	0 Test	91.4 95.5 tCode: El RunNo: 9 SeqNo: 3	61.9 69 PA Method 6159 481903 LowLimit	130 147 8015M/D: Did Units: mg/K HighLimit	esel Rango	e Organics	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023 Analyte Diesel Range Organics (DRO)	46 4.8 SampTy Batch Analysis D Result 35 3.7	10 ype: MS ID: 74 ; ate: 4 /	50.00 5.000 6 388 20/2023 SPK value 45.58 4.558	0 Test R S SPK Ref Val 0	91.4 95.5 tCode: EI RunNo: 9 GeqNo: 3 %REC 75.8 80.2	61.9 69 PA Method 6159 481903 LowLimit 54.2 69	130 147 8015M/D: Did Units: mg/K HighLimit	esel Rango G %RPD	e Organics RPDLimit	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP	46 4.8 SampTy Batch Analysis December 35 3.7 D SampTy	10 ype: MS ID: 74: ate: 4// PQL 9.1	50.00 5.000 5.000 6 388 20/2023 SPK value 45.58 4.558	0 Test R S SPK Ref Val 0	91.4 95.5 tCode: EI RunNo: 9 GeqNo: 3 %REC 75.8 80.2	61.9 69 PA Method 6159 481903 LowLimit 54.2 69	130 147 8015M/D: Did Units: mg/K HighLimit 135 147	esel Rango G %RPD	e Organics RPDLimit	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS	46 4.8 SampTy Batch Analysis December 35 3.7 D SampTy	10 ype: MS ID: 74: ate: 4// PQL 9.1 ype: MS	50.00 5.000 5.000 6 388 20/2023 SPK value 45.58 4.558	0 Test R S SPK Ref Val 0 Test	91.4 95.5 tCode: El RunNo: 96 SeqNo: 36 %REC 75.8 80.2	61.9 69 PA Method 6159 481903 LowLimit 54.2 69 PA Method 6159	130 147 8015M/D: Did Units: mg/K HighLimit 135 147	esel Rango (g %RPD esel Rango	e Organics RPDLimit	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0'	Analysis D. Result 35 3.7 D SampTy Batch	10 ype: MS ID: 74: ate: 4// PQL 9.1 ype: MS	50.00 5.000 5.000 6 388 20/2023 SPK value 45.58 4.558 6D 388 20/2023	0 Test R S SPK Ref Val 0 Test	91.4 95.5 tCode: El RunNo: 96 SeqNo: 3. %REC 75.8 80.2 tCode: El RunNo: 96 SeqNo: 3.	61.9 69 PA Method 6159 481903 LowLimit 54.2 69 PA Method 6159	130 147 8015M/D: Did Units: mg/K HighLimit 135 147 8015M/D: Did	esel Rango (g %RPD esel Rango	e Organics RPDLimit	
Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2304662-003AMS Client ID: BH23-19 0' Prep Date: 4/18/2023	Analysis D. SampTy Batch Analysis D. Result 35 3.7 D SampTy Batch Analysis D.	10 ype: MS ID: 74; ate: 4// PQL 9.1 ype: MS ID: 74; ate: 4//	50.00 5.000 5.000 6 388 20/2023 SPK value 45.58 4.558 6D 388 20/2023	0 Test R S SPK Ref Val 0 Test	91.4 95.5 tCode: El RunNo: 96 SeqNo: 3. %REC 75.8 80.2 tCode: El RunNo: 96 SeqNo: 3.	61.9 69 PA Method 6159 481903 LowLimit 54.2 69 PA Method 6159 481904	130 147 8015M/D: Did Units: mg/K HighLimit 135 147 8015M/D: Did	esel Rango (g %RPD esel Rango	e Organics RPDLimit e Organics	Qual

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
- 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 16 of 21

Hall Environmental Analysis Laboratory, Inc.

2304662

WO#:

nc. 27-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Sample ID: LCS-74565 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 74565 RunNo: 96315 Prep Date: 4/26/2023 Analysis Date: 4/26/2023 SeqNo: 3488063 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 10 0 42 50.00 84.2 61.9 130 Surr: DNOP 4.5 5.000 89.8 147

Sample ID: MB-74565 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74565 RunNo: 96315

Prep Date: 4/26/2023 Analysis Date: 4/26/2023 SeqNo: 3488064 Units: mg/Kg

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

	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	Piesel Range Organics (DRO)	ND	10									
Ν	Notor Oil Range Organics (MRO)	ND	50									
	Surr: DNOP	8.7		10.00		86.6	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 17 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304662**

27-Apr-23

Client: Vertex Resources Services, Inc.
Project: Laguna Salado 22 Federal 4

Sample ID: Ics-74359	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 74359	RunNo: 96123		
Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3480902	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0 25.00	0 0 93.7 70	130	
Surr: BFB	5100 1000	0 507 37.7	212	S
Sample ID: mb-74359	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 74359	RunNo: 96123		
Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3480903	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	880 1000	0 87.5 37.7	212	
Sample ID: Ics-74370	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 74370	RunNo: 96093		
Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3481111	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0 25.00	0 0 85.0 70	130	
Surr: BFB	2000 1000	0 196 37.7	212	
Sample ID: mb-74370	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 74370	RunNo: 96093		
Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: 3481112	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	890 1000	0 89.1 37.7	212	
Sample ID: 2304662-009ams	s SampType: MS	TestCode: FPA Method	8015D: Gasoline Range	
	z campi ypo. me	roctoddo. El 74 Motiloc		

Prep Date: 4/17/2023	Analysis D	Analysis Date: 4/18/2023			SeqNo: 3481115 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.20	0	93.0	70	130			
Surr: BFB	2000		968.1		209	37.7	212			

Sample ID: 2304662-009amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH23-31 0'** Batch ID: **74370** RunNo: **96093**

Batch ID: 74370

Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481116 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
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

Client ID: BH23-31 0'

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

RunNo: 96093

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

Page 18 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304662**

27-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Client ID:

Sample ID: 2304662-009amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

BH23-31 0' Batch ID: 74370 RunNo: 96093

Prep Date: 4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481116 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 1.17 20 Gasoline Range Organics (GRO) 22 4.8 23.88 93.2 70 130 Surr: BFB 2000 955.1 210 37.7 212 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

Page 19 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304662**

27-Apr-23

Client: Vertex Resources Services, Inc.
Project: Laguna Salado 22 Federal 4

Sample ID: LCS-74359	SampT	S	Tes	tCode: El	tiles					
Client ID: LCSS	Batch	n ID: 74 3	359	F	RunNo: 9					
Prep Date: 4/17/2023	Analysis D	Date: 4/	18/2023	9	SeqNo: 3					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.7	80	120			
Toluene	0.85	0.050	1.000	0	85.1	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.6	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.8	80	120			
Surr: 4-Bromofluorobenzene	1.000		94.2	70	130					

Sample ID: mb-74359	Samp1	ype: ME	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batcl	n ID: 74 :	359	F	RunNo: 9	6123				
Prep Date: 4/17/2023	7/2023 Analysis Date: 4/18/2023			8	SeqNo: 3	480931	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	0.92		1.000		92.0	70	130			

Sample ID: Ics-74370	SampT	ype: LC	S	Tes	tCode: El	PA Method	tiles			
Client ID: LCSS	Batcl	n ID: 74 :	370	F	RunNo: 9	6093				
Prep Date: 4/17/2023	4/17/2023 Analysis Date: 4/18/2023 SeqNo: 3481168 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.7	80	120			
Toluene	0.86	0.050	1.000	0	86.4	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.8	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.9	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.3	70	130			

Sample ID: mb-74370	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	l 8021B: Volatiles				
Client ID: PBS	Batch	1D: 74	370	R	RunNo: 9	6093					
Prep Date: 4/17/2023	Analysis D	ate: 4/	18/2023	S	SeqNo: 3	481169	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	0.85		1.000		85.4	70	130				

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
- 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 20 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304662**

27-Apr-23

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Federal 4

Sample ID: 2304662-010ams	5	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-32 0'	Batcl	h ID: 74 3	370	F	RunNo: 96093					
Prep Date: 4/17/2023	Analysis D	Date: 4/	19/2023	9	SeqNo: 3	481173	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9497	0	95.3	68.8	120			
Toluene	0.92	0.047	0.9497	0	96.6	73.6	124			
Ethylbenzene	0.91	0.047	0.9497	0	95.8	72.7	129			
Xylenes, Total	2.7	0.095	2.849	0	94.8	75.7	126			
Surr: 4-Bromofluorobenzene 0.81 0.9497					85.1	70	130			

Sample ID: 2304662-010amso	l Samp∃	уре: М \$	SD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-32 0'	Batc	h ID: 74	370	RunNo: 96093								
Prep Date: 4/17/2023	Analysis [Date: 4/	19/2023	\$	SeqNo: 3	481174	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.92	0.024	0.9506	0	97.3	68.8	120	2.08	20			
Toluene	0.93	0.048	0.9506	0	98.3	73.6	124	1.90	20			
Ethylbenzene	0.92	0.048	0.9506	0	97.1	72.7	129	1.40	20			
Xylenes, Total	2.7	0.095	2.852	0	95.7	75.7	126	1.07	20			
Surr: 4-Bromofluorobenzene	0.82		0.9506		85.9	70	130	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

Page 21 of 21

ENVIRONMENTAL

Vertex Resources Services, Inc.

ANALYSIS

Client Name:

LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE

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

Work Order Number: 2304662

Sample Log-In Check List

RcptNo: 1

Released to Imaging: 4/4/2025 2:49:23 PM

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

Received By:	Cheyenne	Cason	4/15/2023 8:40):00 AM		Chenl		
Completed By:	Cheyenne	Cason	4/17/2023 8:10):55 AM		Chul		
Reviewed By:	JNYII	7/23				i Small		
Chain of Cus	stody							
1. Is Chain of C	ustody comple	ete?		Ye	s 🗸	No [Not Present]
2. How was the	sample delive	ered?		Co	urier			
Log In								
3. Was an atter	npt made to co	ool the samples	5?	Yes	v	No 🗆] NA []
4. Were all sam	ples received	at a temperatu	re of >0° C to 6.0°C	Yes	.	No 🗆] NA []
5. Sample(s) in	proper contain	ner(s)?		Yes	V	No 🗆]	
6. Sufficient sam	nple volume fo	r indicated test	(s)?	Yes	V	No 🗆		
7. Are samples ((except VOA a	and ONG) prope	erly preserved?	Yes	V	No 🗌		
8. Was preserva	itive added to	bottles?		Yes		No 🗹	NA 🗆	
9. Received at le	east 1 vial with	headspace <1	/4" for AQ VOA?	Yes		No 🗆	NA 🗹	
10. Were any sar	mple containe	rs received bro	ken?	Yes	, 🗆	No 🗹	# of preserved	
11. Does paperwo	ork match bott	le labels?		Yes	V	No 🗆	bottles checked	
(Note discrepa							(<2	2 or >12 unless noted)
12. Are matrices of	correctly ident	ified on Chain o	of Custody?	Yes	V	No 🗌		
13. Is it clear wha				Yes		No 🗆		
14. Were all holdi (If no, notify c	-			Yes		No 🗀	Checked by	1
							W 41	17/23
Special Handi	ELECTRIC PROPERTY					F		a
15. Was client no	otified of all dis	screpancies wit	h this order?	Ye	s L	No L	NA 🔽	<u> </u>
Person	Notified:			Date:			-	
By Who				√ia: ☐ eN	/lail [] Phone [] Fa	ax	
Regard								
Client I	nstructions:				=			
16. Additional re	emarks:							
17. Cooler Infor	mation							
Cooler No		-	Seal Intact Seal	No Seal I	Date	Signed By		
1	1.0	Good N	lot Present Morty	PASA ASSAULT			Verrepowe	
								

eceiven	Hairr-	of4eva	Stody Record	1 4111	i-Albuna	Tittle.					Н	AL	L	EN	IV	IR	10	1M	E	148	<i>e 10</i> /	of 21
Client:	Devon/V	ertex		X	Standard	Rush_	5 Day														R	
· · · · · · · · · · · · · · · · · · ·				Proje	ect Name	e:						www	ı.hal	lenvi	ironn	nenta	al.co	m				
Mailing	Address			l agu	ına Salad	do 22 Federal	4		49	01 H	awki	ns N	IE -	Alb	uque	erque	e, NN	/I 871	109			
		On me			ect #:				Τe	el. 50	5-34	5-39	975	F	ax 5	505-3	345-	4107				
Phone #	<u> </u>	On file		23E	-01414								Α	naly	sis I	Requ	uest					
	Fax#:			Proj	ect Mana	iger:		=	<u>(</u>					SO ₄			£					ē
QA/QC F	ackage:		-				s (8021)	/ MRO)	PCB's		MS		PO4, S			Abse					-	
□ Stan	andard Level 4 (Full Validation ditation: Az Compliance		□ Level 4 (Full Validation)	Kent Stallings				DRO,	△		8270SIMS		2, P(ent/						
				Sampler: SM				TMB.	_	808,	504.1)	r 82		NO ₂ ,		<u></u>	res	1				
□ NEL/		□ Other		On I	ce: Coolers:	Yes	□ No Mart	H /	GRC	des/	d 50	100	tals	03,		9	E E					
	(Type)_					(including CF): 1	1-0,1=1.0	MTBE	TPH:8015D(GRO	Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	QF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
				Con	tainer	Preservative	HEAL No.	R) <u>89</u>		3 (N	d Sh	RA	F, E	<u>S</u>	S) 0.	S S					
Date	Time	Matrix	Sample Name		e and #	Туре	2304662	BTEX/	座	8081	EDI	PA	RCI	0	826	827	<u>to</u>	_	$ \bot $			
4/13/23	8:55	Soil	BES23-16 0'	4 02	: jar	ice	001	x	x_					Х			\square		_		\dashv	
	9:24		BES23-18 0'				007	Х	x					X_				\dashv			4	
	9:30		BES23-19 0'				g03	Х	Х					X_				\square	_			\perp
	11:40		BES23-22 0'				004	Х	х					x				\square	_		4	
	12:13		BES23-25 0'				MG	Х	Х					Х					=			
	12:23		BES23-26 0'				006	X	Х					Х								
	12:32		BES23-27 0'				007	Х	X					Х							\dashv	
	12:35		BES23-28 0'				008	х	X					Х						\rightarrow	_	_
	13:15		BES23-31 0'				009	X	X	_				Х	_						_	
	13:15		BES23-32 0'				010	X	X				_	Х	_	<u> </u>				\vdash	_	
	13:35		BES23-33 0'				011	X	Х	_		<u> </u>	_	X	_					\vdash	\rightarrow	_
	13:40		BES23-34 0'				012	X	X		<u> </u>	<u></u>		<u> </u> X	100			124		Ш	3	
Date: 4/13/23	Time: 18:30	Relinquish	sed by: Steph Marty	Rec	ceived by: Via: Date Time				mark smc					evo	n vv/		Pg. 1	1344 lof 2				
Date:	Time:	Relinquish	ned by:	Rec	eived by:	Via:	Date Time															
414/33	900	ali	inny	CV	m	carre	W/15/23 0840	<u> </u>														
	If necessary	, samples su	bmitted to Hall Environmental may be sub	contra	cted to other	accredited laborator	ries. This serves as notice of	f this po	ssibility	. Any	sub-cc	ontracte	ed dat	a will l	oe clea	rly not	ated or	n the a	nalytic	aı repo	ITC.	

Received by are	P-014C4	istody Record	I urn-Around	i iime:			100			н	ΔΙ	L	ΕN	V	TR	O	NN	1E	Pag	ge 168 AL	of 2.
Client: Devon	Vertex		X Standard	d İg∕Rush_	5 Day	_			_											ORI	
			Project Nam							\	۸ ۸ ۸۸۸	/ hall	lenv	ironr	nent	al.co	om				
Mailing Addres	SS On file		l aguna Sala	do 22 Federal	4			⊿ 9∩	1 Hs	awkir								109			
	Offile	.,	Project #:	do 22 i ederar		_				5-34						345-					
Phone #:	On file		23E-01414				7.19	TÇI	. 500	J	0-00		To a real	1000		uest	All Carlotter				33
email or Fax#:			Project Mana	ager:				<u> </u>												T	
QA/QC Package							021	ARC	3 <u>.</u> s		<u>§</u>		1, SO ₄			Ser					
☐ Standard	-	☐ Level 4 (Full Validation)	Kent Stalling	S			s (8	5	PCB's	Ì	8270SIMS		PO ₄ ,			TA					
Accreditation:	□ Az Co	mpliance	Sampler:	SM			E I	삐	082	=	827(NO ₂ ,			eser					
□ NELAC	☐ Other	·	On Ice:		□ No Marty	/	$ \begin{bmatrix} 1 \\ 1 \end{bmatrix} $	8	es/8	504	ō	<u>s</u>			(A)	Pr					
□ EDD (Type))		# of Coolers Cooler Temp		1 01-10		138	9	ficid	P P	831(Neta	Br, NO ₃ ,	A)	h-İ-	form					
					1-0.1=1.0		2	3015	Pes	Met	à	8	Ŗ,	8	(Ser	Coli					
Date Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2304662		(8021) MTBE / TMB's	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	<u>D</u>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
	5 Soil	BES23-38 0'	4 oz jar	+	013		x >				-		X			F				\dashv	+
17.7			- 02 jui		O_{i}	- 	` /	Ť		\dashv	ᅥ	\dashv				-			\Box		+
						-	-		\dashv	\dashv	-	\dashv	_		$\overline{}$	_			\vdash	\dashv	+
			1			\dashv	\dashv	-		-	-	\dashv	_						\vdash	+	+
	<u> </u>		ļ			-		-	\dashv	-	-	_	_						\vdash	\dashv	+
		<u> </u>				_		_	_	_	-	_							\vdash	-	_
							_	_	_	_	_	_				<u> </u>			\vdash		-
								_		_								<u> </u>	\square	_	
								\perp	_	_	_									\dashv	
									_		_	_									
																L			Ш		
Date: Time: 4/13/23 18:30	Relinquish	ed by: Steph Mort	Received by:	Via:	Date Time		Rem c.c s						evor	า W/		21 Pg. 2					
Date: Time:	Relinquish	ned by:	Received by:	Via:	Date Time																
1/11/23/1910	ac	uun?	eme	cour	1/15/23 084	10															



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

May 03, 2023

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

FAX

RE: Laguna Salado 22 Fed 4 OrderNo.: 2304962

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/22/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 2'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 8:52:00 AM

 Lab ID:
 2304962-001
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/28/2023 11:40:45 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/28/2023 11:40:45 AM
Surr: DNOP	107	69-147	%Rec	1	4/28/2023 11:40:45 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2023 11:59:52 AM
Surr: BFB	99.1	37.7-212	%Rec	1	4/28/2023 11:59:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/28/2023 11:59:52 AM
Toluene	ND	0.050	mg/Kg	1	4/28/2023 11:59:52 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2023 11:59:52 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/28/2023 11:59:52 AM
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	4/28/2023 11:59:52 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2000	60	mg/Kg	20	4/27/2023 7:13:46 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 1 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 4'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 9:10:00 AM

 Lab ID:
 2304962-002
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/28/2023 11:51:11 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2023 11:51:11 AM
Surr: DNOP	105	69-147	%Rec	1	4/28/2023 11:51:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2023 1:09:49 PM
Surr: BFB	97.8	37.7-212	%Rec	1	4/28/2023 1:09:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 1:09:49 PM
Toluene	ND	0.049	mg/Kg	1	4/28/2023 1:09:49 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2023 1:09:49 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/28/2023 1:09:49 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	4/28/2023 1:09:49 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1200	60	mg/Kg	20	4/27/2023 7:26:10 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

ple pH Not In Range
Orting Limit Page 2 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 6'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 9:35:00 AM

 Lab ID:
 2304962-003
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/28/2023 12:01:41 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2023 12:01:41 PM
Surr: DNOP	113	69-147	%Rec	1	4/28/2023 12:01:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2023 2:19:53 PM
Surr: BFB	105	37.7-212	%Rec	1	4/28/2023 2:19:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/28/2023 2:19:53 PM
Toluene	ND	0.050	mg/Kg	1	4/28/2023 2:19:53 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2023 2:19:53 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/28/2023 2:19:53 PM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	4/28/2023 2:19:53 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1900	60	mg/Kg	20	4/27/2023 7:38:34 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 3 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 8'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 10:00:00 AM

 Lab ID:
 2304962-004
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 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	9.5	mg/Kg	1	4/28/2023 12:12:09 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/28/2023 12:12:09 PM
Surr: DNOP	99.2	69-147	%Rec	1	4/28/2023 12:12:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/28/2023 2:43:11 PM
Surr: BFB	103	37.7-212	%Rec	1	4/28/2023 2:43:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 2:43:11 PM
Toluene	ND	0.048	mg/Kg	1	4/28/2023 2:43:11 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/28/2023 2:43:11 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/28/2023 2:43:11 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	4/28/2023 2:43:11 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1500	60	mg/Kg	20	4/28/2023 10:41:18 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

Page 4 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-14 9'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 10:26:00 AM

 Lab ID:
 2304962-005
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/28/2023 12:22:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/28/2023 12:22:40 PM
Surr: DNOP	89.7	69-147	%Rec	1	4/28/2023 12:22:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2023 3:06:27 PM
Surr: BFB	101	37.7-212	%Rec	1	4/28/2023 3:06:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 3:06:27 PM
Toluene	ND	0.049	mg/Kg	1	4/28/2023 3:06:27 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2023 3:06:27 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/28/2023 3:06:27 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	4/28/2023 3:06:27 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2400	150	mg/Kg	50	5/1/2023 9:14:10 AM

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 5 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 2'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 11:15:00 AM

 Lab ID:
 2304962-006
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 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	9.3	mg/Kg	1	4/28/2023 12:33:12 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/28/2023 12:33:12 PM
Surr: DNOP	110	69-147	%Rec	1	4/28/2023 12:33:12 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2023 3:29:45 PM
Surr: BFB	109	37.7-212	%Rec	1	4/28/2023 3:29:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/28/2023 3:29:45 PM
Toluene	ND	0.050	mg/Kg	1	4/28/2023 3:29:45 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2023 3:29:45 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/28/2023 3:29:45 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	4/28/2023 3:29:45 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1000	60	mg/Kg	20	4/28/2023 11:05:59 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 6 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 4'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 11:36:00 AM

 Lab ID:
 2304962-007
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 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	9.2	mg/Kg	1	4/28/2023 12:43:44 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/28/2023 12:43:44 PM
Surr: DNOP	104	69-147	%Rec	1	4/28/2023 12:43:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2023 3:53:06 PM
Surr: BFB	109	37.7-212	%Rec	1	4/28/2023 3:53:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 3:53:06 PM
Toluene	ND	0.049	mg/Kg	1	4/28/2023 3:53:06 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2023 3:53:06 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/28/2023 3:53:06 PM
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	4/28/2023 3:53:06 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1600	60	mg/Kg	20	4/28/2023 11:18:20 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 7 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 6'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 12:19:00 PM

 Lab ID:
 2304962-008
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/28/2023 12:54:20 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/28/2023 12:54:20 PM
Surr: DNOP	98.4	69-147	%Rec	1	4/28/2023 12:54:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2023 4:16:27 PM
Surr: BFB	114	37.7-212	%Rec	1	4/28/2023 4:16:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 4:16:27 PM
Toluene	ND	0.049	mg/Kg	1	4/28/2023 4:16:27 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2023 4:16:27 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/28/2023 4:16:27 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	4/28/2023 4:16:27 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1700	60	mg/Kg	20	4/28/2023 11:30:42 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 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-01 0'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 2:36:00 PM

 Lab ID:
 2304962-009
 Matrix: SOIL
 Received Date: 4/22/2023 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	8.7	mg/Kg	1	4/28/2023 1:04:56 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	4/28/2023 1:04:56 PM
Surr: DNOP	69.3	69-147	%Rec	1	4/28/2023 1:04:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/28/2023 4:40:02 PM
Surr: BFB	88.6	37.7-212	%Rec	1	4/28/2023 4:40:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 4:40:02 PM
Toluene	ND	0.048	mg/Kg	1	4/28/2023 4:40:02 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/28/2023 4:40:02 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/28/2023 4:40:02 PM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	4/28/2023 4:40:02 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	4/28/2023 11:43:03 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

orting Limit Page 9 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-01 2'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 2:45:00 PM

 Lab ID:
 2304962-010
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 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	4/28/2023 1:15:33 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2023 1:15:33 PM
Surr: DNOP	108	69-147	%Rec	1	4/28/2023 1:15:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2023 5:03:23 PM
Surr: BFB	100	37.7-212	%Rec	1	4/28/2023 5:03:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/28/2023 5:03:23 PM
Toluene	ND	0.050	mg/Kg	1	4/28/2023 5:03:23 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2023 5:03:23 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/28/2023 5:03:23 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	4/28/2023 5:03:23 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1300	59	mg/Kg	20	4/29/2023 12:20:04 AM

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 10 of 16

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-01 4'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 2:55:00 PM

 Lab ID:
 2304962-011
 Matrix: SOIL
 Received Date: 4/22/2023 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	9.2	mg/Kg	1	4/28/2023 1:26:08 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/28/2023 1:26:08 PM
Surr: DNOP	94.0	69-147	%Rec	1	4/28/2023 1:26:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2023 5:50:06 PM
Surr: BFB	97.3	37.7-212	%Rec	1	4/28/2023 5:50:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/28/2023 5:50:06 PM
Toluene	ND	0.050	mg/Kg	1	4/28/2023 5:50:06 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2023 5:50:06 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/28/2023 5:50:06 PM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	4/28/2023 5:50:06 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	880	61	mg/Kg	20	4/29/2023 9:04:38 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 11 of 16

Analytical Report Lab Order 2304962

Date Reported: 5/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-01 6'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/20/2023 3:00:00 PM

 Lab ID:
 2304962-012
 Matrix: SOIL
 Received Date: 4/22/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/28/2023 1:36:40 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/28/2023 1:36:40 PM
Surr: DNOP	104	69-147	%Rec	1	4/28/2023 1:36:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2023 6:13:24 PM
Surr: BFB	107	37.7-212	%Rec	1	4/28/2023 6:13:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/28/2023 6:13:24 PM
Toluene	ND	0.049	mg/Kg	1	4/28/2023 6:13:24 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2023 6:13:24 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/28/2023 6:13:24 PM
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	4/28/2023 6:13:24 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1000	60	mg/Kg	20	4/29/2023 9:16:58 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

Page 12 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304962**

03-May-23

Client: Devon Energy

Project: Laguna Salado 22 Fed 4

Sample ID: MB-74614 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74614 RunNo: 96377

Prep Date: 4/27/2023 Analysis Date: 4/27/2023 SeqNo: 3490687 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74614 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74614 RunNo: 96377

Prep Date: 4/27/2023 Analysis Date: 4/27/2023 SeqNo: 3490688 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.3 90 110

Sample ID: MB-74650 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **74650** RunNo: **96422**

Prep Date: 4/28/2023 Analysis Date: 4/28/2023 SeqNo: 3492968 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74650 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74650 RunNo: 96422

Prep Date: 4/28/2023 Analysis Date: 4/28/2023 SeqNo: 3492969 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.7 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 13 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304962** *03-May-23*

Client: Devon Energy

Project: Laguna Salado 22 Fed 4

Sample ID: LCS-74602 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74602 RunNo: 96417

Prep Date: 4/27/2023 Analysis Date: 4/28/2023 SeqNo: 3492730 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 54 10 50.00 0 108 61.9 130

 Diesel Range Organics (DRO)
 54
 10
 50.00
 0
 108
 61.9
 130

 Surr: DNOP
 5.9
 5.000
 117
 69
 147

Sample ID: MB-74602 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74602 RunNo: 96417

Prep Date: 4/27/2023 Analysis Date: 4/28/2023 SeqNo: 3492733 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 13 10.00 132 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
- 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 14 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304962** *03-May-23*

Client: Devon Energy

Project: Laguna Salado 22 Fed 4

Sample ID: Ics-74590 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 74590 RunNo: 96393

Prep Date: 4/26/2023 Analysis Date: 4/28/2023 SeqNo: 3491558 Units: mg/Kg

PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result %REC LowLimit Qual 25.00 Gasoline Range Organics (GRO) 23 5.0 Λ 90.2 70 130 Surr: BFB 5000 1000 504 37.7 212 S

Sample ID: mb-74590 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 74590 RunNo: 96393

Prep Date: 4/26/2023 Analysis Date: 4/28/2023 SeqNo: 3491559 Units: mg/Kg

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

37.7

212

 Gasoline Range Organics (GRO)
 ND
 5.0

 Surr: BFB
 1000
 1000
 104

Sample ID: 2304962-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH23-14 2' Batch ID: 74590 RunNo: 96393

Prep Date: 4/26/2023 Analysis Date: 4/28/2023 SeqNo: 3491561 Units: mg/Kg

Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte PQL %REC LowLimit Qual Gasoline Range Organics (GRO) 20 4.9 24.61 0 81.7 70 130 Surr: BFB S 984.3 5000 506 37.7 212

Sample ID: 2304962-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH23-14 2' Batch ID: 74590 RunNo: 96393

Prep Date: 4/26/2023 Analysis Date: 4/28/2023 SeqNo: 3491562 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual Gasoline Range Organics (GRO) 22 5.0 24.80 87.7 70 7.83 130 20 Surr: BFB 5200 992.1 521 37.7 212 0 0 S

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 15 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304962**

03-May-23

Client: Devon Energy

Project: Laguna Salado 22 Fed 4

Sample ID: LCS-74590	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	n ID: 74	590	F	RunNo: 9	6393				
Prep Date: 4/26/2023	Analysis D	Date: 4/	28/2023	SeqNo: 3491572			Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.2	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	70	130			

Sample ID: mb-74590	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 74	590	F	RunNo: 9					
Prep Date: 4/26/2023	Analysis D	oate: 4/	28/2023	8	SeqNo: 3	491573	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	0.96		1.000		96.2	70	130			

Sample ID: 2304962-002ams	SampT	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: BH23-14 4'	Batch	n ID: 74 !	590	RunNo: 96393						
Prep Date: 4/26/2023	Analysis D	ate: 4/	28/2023	S	SeqNo: 3	491576	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9872	0	84.8	68.8	120			
Toluene	0.88	0.049	0.9872	0	89.3	73.6	124			
Ethylbenzene	0.90	0.049	0.9872	0	91.2	72.7	129			
Xylenes, Total	2.7	0.099	2.962	0	92.1	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9872		100	70	130			

Sample ID: 2304962-002amsd	SampT	SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: BH23-14 4'	Batch	n ID: 745	590	R	RunNo: 9						
Prep Date: 4/26/2023	Analysis D	ate: 4/2	28/2023	S	SeqNo: 3	491577	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.86	0.025	0.9872	0	86.7	68.8	120	2.26	20		
Toluene	0.89	0.049	0.9872	0	90.1	73.6	124	0.859	20		
Ethylbenzene	0.90	0.049	0.9872	0	91.6	72.7	129	0.416	20		
Xylenes, Total	2.7	0.099	2.962	0	92.6	75.7	126	0.545	20		
Surr: 4-Bromofluorobenzene	0.99		0.9872		100	70	130	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

Page 16 of 16

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: 4/4/2025 2:49:23 PM

Client Name:	Devon Ene	ergy	Work	Order Numbe	er: 2304962		RcptNo	: 1
Received By:	Juan Roja	as	4/22/20)23 7:30:00 AI	M	Hansay Hansay		
Completed By:	Juan Roja	as	4/22/20)23 7:55:14 AI	VI	Hansay		
Reviewed By:	W	9 41	24/23					
Chain of Cust	ody							
1. Is Chain of Cu	stody comp	lete?			Yes 🗌	No 🗹	Not Present	
2. How was the s	ample deliv	rered?			Courier			
Log In								
3. Was an attem	ot made to	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 🗸	No 🗌	NA 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes 🗸	No 🗆		
6. Sufficient samp	ole volume f	or indicated t	est(s)?		Yes 🗹	No 🗌		
7. Are samples (e	xcept VOA	and ONG) pr	operly preserve	ed?	Yes 🗹	No 🗌		
8. Was preservat	ve added to	bottles?			Yes	No 🗹	NA \square	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ple containe	ers received l	oroken?		Yes	No 🗹	# of preserved	
11. Does paperwor (Note discrepa			n)		Yes 🗸	No 🗆	bottles checked for pH:	>12 unless noted)
12. Are matrices co			•		Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what	analyses w	ere requested	1?		Yes 🗸	No 🗌		.1 /
14. Were all holdin (If no, notify cu	-)		Yes 🗹	No 🗌	Checked by:	14/22/2
Special Handli	ng (if app	olicable)						
15. Was client not			with this order	?	Yes 🗌	No 🗌	NA 🗹	
Person N	Notified:			Date]
By Whor	n:			Via:	eMail	Phone Fax	☐ In Person	
Regardir	ıg:							
	structions:							
16. Additional rem								
		ng address,pl	one number a	nd email addre	ess on COC	JR 4/22/23		
17. Cooler Inform	nation Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
1	0.3	Good	No Sear mact	Morty	ocai Dale	Signed by		

C	hain	of-Cu	ustody Record	Turn-Around	Time:			HALL ENVIRONMENTAL					ΔΙ								
Client:	Deven	/ve	tex	Z Standard	Rushe:	<u> 5 Day</u>				A	N	AL	YS	SIS	L		801		то		7
Mailing	Address	On	A-le	La guna	Salador	2 Fed 4				awki	ns N	E -	Alb	uque	erqu	e, NI	И 87 [.]				
Phone :	4.	-		23E-0		[1] 55		Te	el. 50	5-34	5-39					345- uest	4107			PAN	
email o	***	-+		Project Mana			_	<u></u>					SO4					17	1710/00		
	Package:		□ Level 4 (Full Validation)	Kent S		, W 1 1 1 Vg.	TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	PCB's		8270SIMS	91	PO4,			Total Coliform (Present/Absent)					
Accredi	tation: AC	☐ Az Co	ompliance r	Sampler: §		□ No	_	30 / DF	ss/8082	504.1)		S	3, NO ₂ ,	24 V 1	(AC	(Prese	Les 168 les val	E.			
	(Type)			# of Coolers:		Marty	MTBE	D(G	icide	pod	3310	letal	Br, NO ₃ ,	₽	ni-V(orm	- 1	127	51		
				Cooler Temp	Preservative	HEAL No.	BIEN M	H:8015	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	C. F. Br,	8260 (VOA)	8270 (Semi-VOA)	tal Colif					
		Matrix	Sample Name	Type and #	Туре	7304962	6	-/	8	쁴	<u>a</u>	쮼	0	82	82	의	(E + J)		double Mount	_	-
4/20/23	8:52	Soil	BH23-14 2'	402-ja1	rce	-001		٧		\dashv	_		V							- 1	4
10 (12)	9:10	en et eu	18H23-14 4'	N. 1984		-002	Ш				W.	Ales (16.17	+2		491		(19)		1
	9:35		BH23-14 6'			-003	Ш				51 199 -5 19	recent Fortstee		01 la) ((0.00)	61 () (B) 240 %	1119/01	di T	(g 19)	11 y 1		\perp
	10:00		BH23-14 8'			7004				10		di sela centra	to spi ht mb	(10 m) 1	terit il		1	100 1101 c	Acres 1		1
	10:26		BH23-14 9-		DOM TO BE SHOWN THE	-005	Ш			791	1,41	1135		17/079	walle	ban		107			<u> </u>
	11:15		BH 23-05 2'			-006						i e	4	Delice		Chapter	et al.		βŰ		
	11:36		BH 23-05 4'			-007	Ш										tem		rRC1		
	12:19		BH 23-05 6	100		-008	Ш							10 - 10							
-	14:36		BG22-01 0'			-009					100			ut TA	11 16%	11 11 11	A HE	Oughy V	7 BH		
	14.45	7,74	BG23-01 2-			-010							\perp		11-11-	i kalji	rm0,		H. His		\perp
	14.55	7 7 7	BG23-01 4"	14,000	August and any his of	-011	Щ	11				y inc	170 11	, a ceta		1000	10.79		M21		1
	15:00		BG23-01 6'		\	-012	Ш				AND T				10 m						
Date: Date:	Time:	Relinquis Relinquis	MCA	Received by:	Via:	Date Time Date Time	Rei	mark	s: D	نامو	ed b	Nic	: P1	Luour	7	ט /נת	, 2	113	44	188	
4/91/23	1900	1	lillings	13	-10uvile	Date Time 4/2/13 7.130	ے ا	- C - ;	SM	cco	u-tz	@	ver-	lex	. Co		Link	Pa	lof	1	

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

Released to Imaging: 4/4/2025 2:49:23 PM



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

September 11, 2023

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

RE: Laguna Salado 22 Fed 004 OrderNo.: 2308E59

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/26/2023 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: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-18 1'

 Project:
 Laguna Salado 22 Fed 004
 Collection Date: 8/24/2023 12:30:00 PM

 Lab ID:
 2308E59-001
 Matrix: SOIL
 Received Date: 8/26/2023 8:25:00 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	9.8	mg/Kg	1	8/31/2023 8:25:29 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/31/2023 8:25:29 PM
Surr: DNOP	80.3	69-147	%Rec	1	8/31/2023 8:25:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/2/2023 5:21:00 AM
Surr: BFB	95.7	15-244	%Rec	1	9/2/2023 5:21:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	9/2/2023 5:21:00 AM
Toluene	ND	0.047	mg/Kg	1	9/2/2023 5:21:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/2/2023 5:21:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	9/2/2023 5:21:00 AM
Surr: 4-Bromofluorobenzene	88.5	39.1-146	%Rec	1	9/2/2023 5:21:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	8/31/2023 8:59:12 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

Page 1 of 12

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-25 1'

 Project:
 Laguna Salado 22 Fed 004
 Collection Date: 8/24/2023 12:45:00 PM

 Lab ID:
 2308E59-002
 Matrix: SOIL
 Received Date: 8/26/2023 8:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/31/2023 8:50:20 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/31/2023 8:50:20 PM
Surr: DNOP	84.1	69-147	%Rec	1	8/31/2023 8:50:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/2/2023 5:43:00 AM
Surr: BFB	97.2	15-244	%Rec	1	9/2/2023 5:43:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/2/2023 5:43:00 AM
Toluene	ND	0.050	mg/Kg	1	9/2/2023 5:43:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	9/2/2023 5:43:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	9/2/2023 5:43:00 AM
Surr: 4-Bromofluorobenzene	90.9	39.1-146	%Rec	1	9/2/2023 5:43:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	8/31/2023 9:11:36 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 12

Date Reported: 9/11/2023

8/31/2023 9:24:00 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-32 1'

Project: Laguna Salado 22 Fed 004 Collection Date: 8/24/2023 11:20:00 AM Lab ID: 2308E59-003 Matrix: SOIL Received Date: 8/26/2023 8:25:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/31/2023 9:15:14 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/31/2023 9:15:14 PM Surr: DNOP 90.7 69-147 %Rec 1 8/31/2023 9:15:14 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/2/2023 6:04:00 AM 4.9 mg/Kg 1 Surr: BFB 99.6 15-244 %Rec 1 9/2/2023 6:04:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/2/2023 6:04:00 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/2/2023 6:04:00 AM Ethylbenzene ND 0.049 mg/Kg 1 9/2/2023 6:04:00 AM Xylenes, Total ND 0.097 mg/Kg 1 9/2/2023 6:04:00 AM Surr: 4-Bromofluorobenzene 91.0 39.1-146 %Rec 1 9/2/2023 6:04:00 AM **EPA METHOD 300.0: ANIONS** Analyst: RBC

550

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
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- Sample pH Not In Range
- RL

Reporting Limit

Page 3 of 12

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-33 1'

 Project:
 Laguna Salado 22 Fed 004
 Collection Date: 8/24/2023 12:20:00 PM

 Lab ID:
 2308E59-004
 Matrix: SOIL
 Received Date: 8/26/2023 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/5/2023 3:05:09 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/5/2023 3:05:09 PM
Surr: DNOP	89.7	69-147	%Rec	1	9/5/2023 3:05:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2023 6:26:00 AM
Surr: BFB	99.8	15-244	%Rec	1	9/2/2023 6:26:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/2/2023 6:26:00 AM
Toluene	ND	0.049	mg/Kg	1	9/2/2023 6:26:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2023 6:26:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	9/2/2023 6:26:00 AM
Surr: 4-Bromofluorobenzene	93.3	39.1-146	%Rec	1	9/2/2023 6:26:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	750	60	mg/Kg	20	8/31/2023 10:01:14 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 4 of 12

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-34 1'

 Project:
 Laguna Salado 22 Fed 004
 Collection Date: 8/24/2023 12:05:00 PM

 Lab ID:
 2308E59-005
 Matrix: SOIL
 Received Date: 8/26/2023 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/5/2023 3:29:04 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/5/2023 3:29:04 PM
Surr: DNOP	91.8	69-147	%Rec	1	9/5/2023 3:29:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/2/2023 6:48:00 AM
Surr: BFB	94.8	15-244	%Rec	1	9/2/2023 6:48:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/2/2023 6:48:00 AM
Toluene	ND	0.047	mg/Kg	1	9/2/2023 6:48:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/2/2023 6:48:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/2/2023 6:48:00 AM
Surr: 4-Bromofluorobenzene	92.1	39.1-146	%Rec	1	9/2/2023 6:48:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	62	60	mg/Kg	20	8/31/2023 10:13:39 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

orting Limit Page 5 of 12

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-38 1'

 Project:
 Laguna Salado 22 Fed 004
 Collection Date: 8/24/2023 11:00:00 AM

 Lab ID:
 2308E59-006
 Matrix: SOIL
 Received Date: 8/26/2023 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	9.9	9.3	mg/Kg	1	8/31/2023 10:29:35 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/31/2023 10:29:35 PM
Surr: DNOP	93.6	69-147	%Rec	1	8/31/2023 10:29:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/2/2023 7:10:00 AM
Surr: BFB	96.3	15-244	%Rec	1	9/2/2023 7:10:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/2/2023 7:10:00 AM
Toluene	ND	0.047	mg/Kg	1	9/2/2023 7:10:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/2/2023 7:10:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/2/2023 7:10:00 AM
Surr: 4-Bromofluorobenzene	90.5	39.1-146	%Rec	1	9/2/2023 7:10:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	1800	60	mg/Kg	20	8/31/2023 10:26:04 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 6 of 12

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-40 1'

 Project:
 Laguna Salado 22 Fed 004
 Collection Date: 8/24/2023 10:50:00 AM

 Lab ID:
 2308E59-007
 Matrix: SOIL
 Received Date: 8/26/2023 8:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/31/2023 10:54:15 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/31/2023 10:54:15 PM
Surr: DNOP	92.0	69-147	%Rec	1	8/31/2023 10:54:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/2/2023 7:31:00 AM
Surr: BFB	98.3	15-244	%Rec	1	9/2/2023 7:31:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	9/2/2023 7:31:00 AM
Toluene	ND	0.046	mg/Kg	1	9/2/2023 7:31:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	9/2/2023 7:31:00 AM
Xylenes, Total	ND	0.091	mg/Kg	1	9/2/2023 7:31:00 AM
Surr: 4-Bromofluorobenzene	87.8	39.1-146	%Rec	1	9/2/2023 7:31:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	8/31/2023 10:38:29 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 7 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308E59 11-Sep-23

Client: Vertex Resources Services, Inc. **Project:** Laguna Salado 22 Fed 004

Sample ID: MB-77246 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77246 RunNo: 99401

Prep Date: 8/31/2023 Analysis Date: 8/31/2023 SeqNo: 3627582 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-77246 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77246 RunNo: 99401

Prep Date: 8/31/2023 Analysis Date: 8/31/2023 SeqNo: 3627583 Units: mg/Kg

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

Chloride 15.00 93.7 110

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 8 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E59**

11-Sep-23

Client:	Vertex Resources Services, Inc.
Project:	Laguna Salado 22 Fed 004

Project: Laguna	a Salado 22 Fed 004	
Sample ID: LCS-77177	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 77177	RunNo: 99380
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627016 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.7 5.000	114 69 147
Sample ID: MB-77177	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 77177	RunNo: 99380
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627018 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	12 10.00	116 69 147
Sample ID: LCS-77176	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 77176	RunNo: 99380
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627544 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.5 5.000	109 69 147
		109 69 147
Sample ID: LCS-77208	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Sample ID: LCS-77208 Client ID: LCSS	SampType: LCS Batch ID: 77208	
		TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 77208	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec
Client ID: LCSS Prep Date: 8/30/2023	Batch ID: 77208 Analysis Date: 8/31/2023	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec
Client ID: LCSS Prep Date: 8/30/2023 Analyte	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 119 69 147
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 119 69 147 TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 119 69 147 TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627547 Units: mg/Kg
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS Prep Date: 8/30/2023 Analyte Diesel Range Organics (DRO)	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213 Analysis Date: 8/31/2023 Result PQL SPK value 51 10 50.00	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS Prep Date: 8/30/2023 Analyte	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213 Analysis Date: 8/31/2023 Result PQL SPK value	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 119 69 147 TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627547 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS Prep Date: 8/30/2023 Analyte Diesel Range Organics (DRO)	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213 Analysis Date: 8/31/2023 Result PQL SPK value 51 10 50.00	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS Prep Date: 8/30/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213 Analysis Date: 8/31/2023 Result PQL SPK value 51 10 50.00 5.3 5.000	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627547 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 0 103 61.9 130 105 69 147
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS Prep Date: 8/30/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-77176	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213 Analysis Date: 8/31/2023 Result PQL SPK value 51 10 50.00 5.3 5.000 SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627547 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 0 103 61.9 130 105 69 147
Client ID: LCSS Prep Date: 8/30/2023 Analyte Surr: DNOP Sample ID: LCS-77213 Client ID: LCSS Prep Date: 8/30/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-77176 Client ID: PBS	Batch ID: 77208 Analysis Date: 8/31/2023 Result PQL SPK value 5.9 5.000 SampType: LCS Batch ID: 77213 Analysis Date: 8/31/2023 Result PQL SPK value 51 10 50.00 5.3 5.000 SampType: MBLK Batch ID: 77176	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627545 Units: %Rec SPK Ref Val

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
- 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 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E59** *11-Sep-23*

Client: Vertex Resources Services, Inc.
Project: Laguna Salado 22 Fed 004

Sample ID: MB-77208	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	ID: 772	208	F	RunNo: 99380							
Prep Date: 8/30/2023	Analysis D	ate: 8/ 3	31/2023	5	SeqNo: 36	627556	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	13		10.00		131	69	147					

Sample ID: MB-77213	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 772	213	F	RunNo: 99	9380				
Prep Date: 8/30/2023	Analysis D)ate: 8/ 3	31/2023	;	SeqNo: 30	627557	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	11		10.00		108	69	147			
Sample ID: MB-77297	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 772	297	7 RunNo: 99445						

Sample ID: MB-77297	Sampi	ype. WE	SLN	res									
Client ID: PBS	Batch	ID: 772	297	F	RunNo: 99	9445							
Prep Date: 9/5/2023	Analysis D	ate: 9/	5/2023	5	SeqNo: 36	530327	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10	<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u>, </u>				
Motor Oil Range Organics (MRO)	ND	50											
Surr: DNOP	8.9		10.00		89.1	69	147						

Sample ID: LCS-77297	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	ID: 772	297	F	RunNo: 99							
Prep Date: 9/5/2023	Analysis D	ate: 9/	5/2023	5	SeqNo: 36	630328	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	54	10	50.00	0	107	61.9	130					
Surr: DNOP	4.2		5.000		84.4	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
- 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 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308E59

11-Sep-23

Client: Vertex Resources Services, Inc. **Project:** Laguna Salado 22 Fed 004

Sample ID: Ics-77209 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 77209 RunNo: 99415 Prep Date: 8/30/2023 Analysis Date: 9/1/2023 SeqNo: 3629500 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 n 92.2 70 130 Surr: BFB 2200 1000 216 15 244

Sample ID: mb-77209 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 77209 PBS RunNo: 99415 Prep Date: Analysis Date: 9/1/2023 8/30/2023 SeqNo: 3629501 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 980 15

Surr: BFB

1000

98.1

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 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2308E59** *11-Sep-23*

Client: Vertex Resources Services, Inc.

Project: Laguna Salado 22 Fed 004

Sample ID: Ics-77209	Samp	Гуре: LC	s	Tes	tCode: EF	les				
Client ID: LCSS	Batcl	h ID: 772	209	F	RunNo: 99	9415				
Prep Date: 8/30/2023	Analysis [Date: 9/ *	1/2023	8	SeqNo: 36	629583	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	70	130			
Toluene	0.91	0.050	1.000	0	90.7	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.0	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	39.1	146			

Sample ID: mb-77209	SampT	уре: МЕ	BLK	Tes	tCode: EF					
Client ID: PBS	Batch	n ID: 772	209	RunNo: 99415						
Prep Date: 8/30/2023	Analysis D	Date: 9/	1/2023	9	SeqNo: 36	629584	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	0.91		1.000		90.6	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
- 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 12 of 12

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: 4/4/2025 2:49:23 PM

Client Name: Vertex Resources Services, Inc.	Work Order Number: 23	308E59		RcptNo: 1	
Received By: Cheyenne Cason 8	/26/2023 8:25:00 AM		Chenl		
Completed By: Cheyenne Cason 8	/26/2023 9:33:13 AM		Chul		
Reviewed By: Chiqueline Roduyus	8-26-23				
Chain of Custody			_		
1. Is Chain of Custody complete?	Y	es 🗸	No 🗌	Not Present \square	
2. How was the sample delivered?	<u>C</u>	ourier			
Log In 3. Was an attempt made to cool the samples?	Y	es 🗹	No 🗌	NA 🗆	
4. Were all samples received at a temperature of	>0° C to 6.0°C Y	es 🗹	No 🗌	na 🗆	
5. Sample(s) in proper container(s)?	Y	es 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Υє	es 🗸	No 🗌		
$7_{\cdot\cdot}$ Are samples (except VOA and ONG) properly p	reserved? Ye	es 🗸	No 🗌		
8. Was preservative added to bottles?	Ye	es 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA? Ye	es 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken?	Y	es 📙	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Ye	es 🗸	No 🗌	for pH: (<2 or >12	unless noted)
12. Are matrices correctly identified on Chain of Cu	stody? Ye	es 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?	Ye	es 🗹	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ye	es 🗸	No 🗌	Checked by Un	L 8/26,
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	s order? Y	es 🗌	No 🗆	NA 🗹	
Person Notified:	Date:	-			
By Whom:	Via:	eMail [] Phone [] Fax	☐ In Person	
Regarding:			Wood led to be a facility to a		
Client Instructions:					
16. Additional remarks:					
17. Cooler Information		al Date	Signed By		

C	hain	-of-Cu	ustody Rec	ord	Turn-Around Time: Standard Rush 5 DW Project Name: Laguna Salado 22 Fed 004 Project #:									_		,	-			-	
Client:	Dev	in/V	Vertex		Standard Project Nam	Rusi	<u> 15) Au</u>)				Al		LY:	SIS	S L	AE	BOF	RAT		
Mailing A	Address	5: On .	file		Laguna Project#:	Salad	o 22 Fed	004				awkin	s NE	- All	albuquerque, NM 87109						
Phone #					235-0	014/4			Tel. 505-345-3975 Fax 505-345-4107 Analysis Request												
email or	Fax#:				Project Mana			. 611	=	6				SO4			된				
QA/QC P	_		□ Level 4 (Full V	alidation)	Kents	talling-	2	1 225 21 - 11	TMB's (8021)	O/MR	PCB's		CIVIICU 120	PO4,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		nt/Abse				
□ NELA	Accreditation: □ Az Compliance □ NELAC □ Other				On Ice:	∑ // ✓ Yes	□ No Mo	nty		30 / DF	s/8082	9	5	3, NO ₂ ,		JA)	(Prese				17.00
□ EDD	(Type) _.			-	# of Coolers: Cooler Temp	81 4.4- O(Including CF): 3.	0 - 4 -	- (°C)	/ MTBE/	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	RCRA 8 Metals	CF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
Date -	Time	Matrix	Sample Name		Container Type and #	Preservative Type		No.	EEX/	TPH:8	8081	EDB (RCR/	9	8260	8270	Total				
0/24/23	12:30 2,45		BH23-18	1/	40zjar	Ice	04	ed under	Y	<u> </u>	_		+	1							
			BH23-25	1'			CZ.		\dashv	4	\dashv	-10	1111		1			promise pri	961 MA 1		
	11:20		BH23-32	1/			303		Ш	\sqcup			7	1							
- 	12:20		BHZ3-33				004	principles	Ш	\perp		- 4				1 11 11 11 11 11 11 11 11 11 11 11 11 1	lan.	10 A 2 11 12 W 10	rii arei a See a Tesa		
	12:05		BH23-34	1			005	Nacial History							a cos			9 10			
	11:00		BH 23-38	1			006		П						1117 1117	Selber.			100		3.5
V	0:50	V	BH23-40	1'	V	V.	007		V	V				V	_		No.	(April 1979)			
	1						Less and Recorded								77,7	CHU	18 to		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
\$15/13	Fime:	749	MIC	uf	Received by:	Via:	8/25/23	000	Rem	narks	D	rec	+ 6 i	11 6	U: [])ev	ν γ		Age a con		
b/ /	Fime:	Relinduish	éd by:		Received by:	Via:		Time	رڊ	k		lling car							pg	104	2/

ATTACHMENT 6

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV



State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

OCT 2 1 2008 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back with Rule 116 on back

2RP - 240

Notify OCD 48 hours prior to

are to be presented to OCD

obtaining samples where analyses

1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Contact Pete Thomas - Drilling Superintendent Name of Company Devon Energy 6137 Address 6488 Seven Rivers Hwy - P.O. Box 250 Telephone No. 432-556-7156 Facility Name Laguna Salado 22 Fed 4H Facility Type **Battery** LAGUNA SALADO 22 FEDERAL DOYH Surface Owner BLM Mineral Owner Lease No. 30-015-36461 LOCATION OF RELEASE Section Unit Letter Township Feet from the North/South Line Feet from the Range East/West Line County **23S** 28E 22 Eddv Latitude _____ Longitude NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Oil & Produced Water 4 bbls Oil 4 bbls Oil 17 bbls Produced Water 15 bbls Produced Water Date and Hour of Occurrence Date and Hour of Discovery Source of Release 10/13/08 - 5:00 PM 10/13/08 - 5:00 PM During a rig move the sub-structure ruptured a flow-Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☐ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Describe Area Affected and Cleanup Action Taken.* Immediately constructed a dike around area and shut well in. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION Mykol Horner Signature: Remediation Actions to be completed and Approved by District Supervisor: Final C-141 submitted with confirmation analyses/documentation on or before the Toumby SB Printed Name: Mykol Horner Expiration Date. Approval Date: 10-28-28 Expiration Date: Field Tech 1 Title: Conditions of Approval: E-mail Address: mykol.horner@dvn.com Attached Within 30 days, on or before 123-08, completion of a remediation work plan based on delineation should be

finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate

environmental damage

Phone: 575-748-0160

Date:

State of New Mexico

Incident ID	NSEB0830236670
District RP	2RP-260-0
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data □ Data table of soil contaminant concentration data □ Depth to water determination □ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release □ Boring or excavation logs □ Photographs including date and GIS information □ Topographic/Aerial maps 	ls.	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

☐ Laboratory data including chain of custody

Received by OCD: 3/14/2025 9:48:53 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 206 of 214

	- 11gc - 0 0 0 1 -
Incident ID	NSEB0830236670
District RP	2RP-260-0
Facility ID	
Application ID	

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.		
Printed Name:Dale Woodall	Title:Env. Professional	
Signature:	Date:	
email: <u>dale.woodall@dvn.com</u>	Telephone: <u>575-748-1838</u>	
OCD Only		
Received by:	Date:	

rived by OCD: 3/14/2025 9:48:53 AM
NC-141 State of New Mexico

Incident ID	NSEB0830236670
District RP	2RP-260-0
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.	
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
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.		
Printed Name:Dale Woodall_	Title:Env. Professional	
Signature:	Date:	
email:dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>	
OCD Only		
Received by:	Date:	
Approved	Approval Denied Deferral Approved	
Signature:	Date:	

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 442527

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	442527
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nSEB0830236670
Incident Name	NSEB0830236670 LAGUNA SALADO 22 FEDERAL #004H @ 30-015-36461
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-36461] LAGUNA SALADO 22 FEDERAL #004H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LAGUNA SALADO 22 FEDERAL #004H
Date Release Discovered	10/13/2008
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications f	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Normal Operations Flow Line - Production Crude Oil Released: 4 BBL Recovered: 4 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Normal Operations Flow Line - Production Produced Water Released: 17 BBL Recovered: 15 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 442527

QUESTI	ONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 442527
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	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 t 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: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/14/2025

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 442527

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	442527
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan 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 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 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	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	sociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in millig	rams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	13000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10
GRO+DRO (EPA SW-846 Method 8015M)	10
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 completed of which includes the anticipated timelines for beginning and completing the remediation.	forts 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	06/01/2025
On what date will (or did) the final sampling or liner inspection occur	07/01/2025
On what date will (or was) the remediation complete(d)	08/01/2025
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	59618
What is the estimated volume (in cubic yards) that will be remediated	1500
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 442527

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	442527
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
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.	
0.14 - 41 - 41 - 41 - 41 - 41 - 41 - 41 -		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 03/14/2025

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.

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 442527

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	442527
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Requesting a remediation closure approval with this submission

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

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 442527

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	442527
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	

QUESTIONS (continued)

Sampling Event Information Last sampling notification (C-141N) recorded {Unavailable.} Remediation Closure Request Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

No

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 442527

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	442527
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created B	/ Condition	Condition Date
scwells	Remediation plan approved with conditions: Based on the data provided in Table 3, the area of BH23-11 should be excavated to at least 2' depth instead of the proposed.5 depth listed under Remedial Activities. In addition, under the Site Characterization portion of the C-141 application the minimum distances to the following should be updated with next report submission: any other significant watercourse is located 500 feet east and a 100-year floodplain is located between 300-500 feet to the west. Submit remediation closure report to the OCD by 7/3/2025.	4/4/2025