

#### **General Information**

NMOCD District:	District 2	Incident ID:	NAPP2317746199
Landowner:	Mosaic Potash Carlsbad, Inc.	RP Reference:	
Client:	Devon Energy Production Company, LP	Site Location:	Laguna Salado 22 Federal #004H
Date:	December 14, 2024	Project #:	23E-01414
Client Contact:	Jim Raley	Phone #:	
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 "Laguna Salado 4"). The areas of environmental concern include a substructure flowline that ruptured during a rig move. The initial C-141 Release Notification was submitted on June 26, 2023, (Attachment 1). Closure criteria have been selected as per New Mexico Administrative Code (NMAC) 19.15.29.12. All applicable research as it pertains to closure criteria selection is presented in Attachment 2. 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	20,000 mg/kg							
, F0 f - +	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 6 sample points (boreholes) were established, and 18 samples were collected for field screening. Eighteen 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 in Figure 1 (Attachment 3). 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.

#### **Background Sampling**

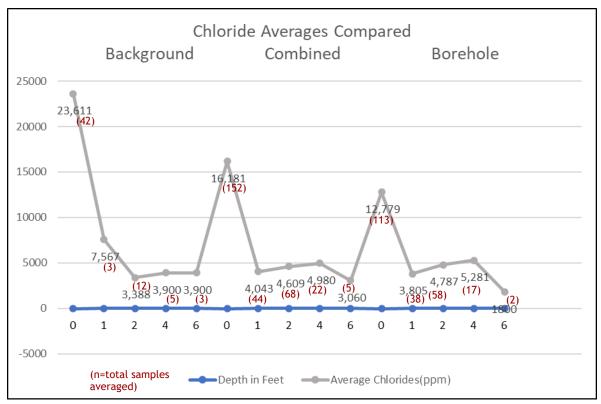
The surrounding landscape includes salt lakes, surface evaporites and gypsum outcrops. Based on site research of the location and the historical and current use of the area in which Laguna Salado 4 is located, as well as information from the New Mexico Energy, Minerals and Natural Resources Department and New Mexico Bureau of Geology and Mineral Resources included in Attachment 2, Vertex Resource Services Inc. determined that there is potential for existing background chloride concentrations to exceed remediation criteria as outlined in Table 1. The investigation of background chloride concentrations, in an attempt to determine a distinction between chloride

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

BTEX - Benzene, toluene, ethylbenzene, and xylenes



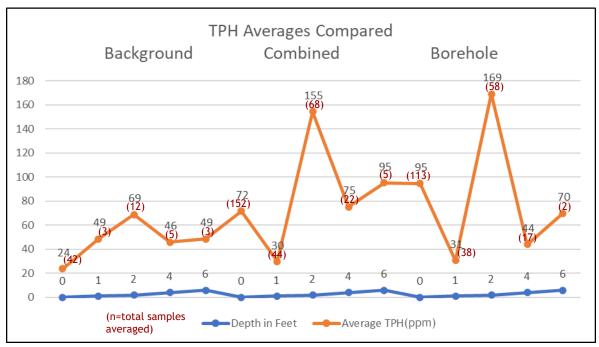
concentrations from the release and the natural background chloride levels, resulted in laboratory analysis of the background samples with naturally elevated chloride levels compared to the strictest criteria, and those found in and around areas of release indicated in the C-141 form. Samples were collected in three separates, but similar, locations along various slopes and elevations, and at various depths. All sample points are presented on Figure 2 (Attachment 3). Results were then compared in groups of Background Samples, a total combination of all samples and samples collected in and around the suspected release location in an attempt to delineate the release. The Background Sample laboratory data findings are included in Graph 1 for chlorides and Graph 2 for TPH. The results indicated that background chloride concentrations were higher than applicable criteria and appear to be higher than in samples collected in and around the suspected release location. Results from Background Samples compared to samples collected in and around the suspected release location also indicated elevated TPH levels.



Graph 1. Chloride Averages Compared – Lab results were compared in groups of Background Samples, a total combination of all samples and samples collected in and around the suspected release location in an attempt to delineate the release. Samples were sub dived into respective depths, shown along the blue line, and averaged, shown along the gray line. Samples with lab results of "ND," or Not Detected, were substituted with zero.

<sup>\*</sup> Red numbers in parenthesis represent total number of samples averaged per each depth.





Graph 2. Total Petroleum Hydrocarbons (TPH) Averages Compared – Results were compared in groups of Background Samples, a total combination of all samples and samples collected in and around the suspected release location in an attempt to delineate the release. Samples were sub dived into respective depths, shown along the blue line and averaged by TPH results, shown along the orange line. Total petroleum hydrocarbons were compared to lab result data and field screening results (Dexsil Petroflag) where numerical value was available and, where both were available, the greater number was used. Samples with lab results of "ND," or Not Detected, were substituted with zero.

The background sample laboratory data are included in Table 4 and the laboratory data reports are included in Attachment 5. According to 19.15.29.12 NMAC – Closure Criteria for Soils Impacted by a Release table, "numerical limits or natural background level, whichever is greater" may be used to determine the level of remediation required for a release for chlorides. The findings and the wide variation of chloride naturally occurring on the surface at concentrations ranged from not detected to 140,000 ppm, and in subsurface areas at concentrations ranging from 660 to 13,000 ppm. At Laguna Salado 4, background chlorides appear to arise from soil parent material, which would explain the rise in chloride ppm for background samples with depth. The requested adjusted closure criteria limits for soils impacted by the release, based on highest observed, site-specific background samples collected, are presented in Table 1. No changes were made to the constituent limits for TPH, BTEX, or benzene.

#### **Remedial Activities**

Areas identified with contaminant concentrations above the adjusted closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. The soil will be excavated to the extent of the known contamination. Field screening will be utilized to confirm the removal of contaminated soil below the applicable closure criteria. Once excavation is complete, confirmatory samples will be collected utilizing a five-point composite sampling method, obtaining both base and wall samples, in correspondence with paragraph 1 of Subsection D of 19.15.29.12 NMAC, to confirm removal of contaminated soil below the applicable closure criteria. The confirmatory samples will be placed into laboratory-provided containers, preserved on ice and submitted to a National Environmental Laboratory Accreditation Program laboratory for chemical analysis. Laboratory analyses will include Method 300.0 for chlorides, Method 8021B for volatile organics, including benzene and BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Contaminated soils will be stored on a 30-mil liner prior to disposal at an approved facility. The excavation will be backfilled with clean soil sourced locally.

<sup>\*</sup>Red numbers in parenthesis represent total number of samples averaged per each depth.

#### **Environmental Site Remediation Work Plan**



#### Incident #: NAPP2317746199

A total of 18 samples were collected for analysis off pad. Exceedances to closure criteria were found off pad at the following sample points: BH23-01 and BH23-04. All sample points are presented in Figure 1 (Attachment 3). Mechanical excavation equipment will be used to complete the excavation in open areas and hand excavation will be utilized in areas where mechanical excavation would be deemed unsafe. A hydrovac truck will be utilized to identify any lines that may be within the area of contaminated soil near lines. Field screening will be utilized to find the horizontal and vertical extents of the spill area. Confirmatory samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is 112 cubic yards.

#### **Environmental Site Remediation Work Plan**



Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575-200-6167 or Chensley@vertexresource.com

2 r	12/13/2024	
Riley Plogger.	Date	
ENVIRONMENTAL TECHNICIAN, REPORTING		
<u></u>	12/14/2024	
Chad Hensley B.SC. GCNR.	Date	

#### **Attachments**

Attachment 1. NMOCD C-141 Report

Attachment 2. Closure Criteria Research

Senior PROJECT MANAGER, REPORT REVIEW

Attachment 3. Figures

Attachment 4. Tables and Laboratory Data Reports

Attachment 5. Background Samples Tables and Laboratory Data Reports

#### **ATTACHMENT 1**

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2317746199
District RP	
Facility ID	
Application ID	_

### **Release Notification**

#### **Responsible Party**

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Received by OCD: 12/16/2024 2:12:22 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Pag	e 8	01	F 3	03

Incident ID	NAPP2317746199
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	nsible party consider this a major release?									
☐ Yes ☐ No											
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?									
	Initial R	esponse									
The responsible	The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury										
☐ The source of the rele	ease has been stopped.										
☐ The impacted area ha	s been secured to protect human health and	the environment.									
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.									
	ecoverable materials have been removed and										
If all the actions described	d above have <u>not</u> been undertaken, explain	vhy:									
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.									
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger oCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws									
Printed Name: Dale W		Title: Env. Professional									
Signature: Dala	Woodall	Date:									
email:dale.woodall@d	lvn.com	Telephone: 575-748-1838									
OCD O I											
OCD Only											
Received by: Shelly Wo	ells	Date: 8/25/2023									

#### **ATTACHMENT 2**

Closure (	Criteria Worksheet		
	ne: LAGUNA SALADO 22 FEDERAL #004H (Pasture)		
-	rdinates: 32.299026, -103.974664		
Site Spe	cific Conditions	Value	Unit
1	Depth to Groundwater	<50	feet
2	Within 300 feet of any continuously flowing	15,734	feet
	watercourse or any other significant watercourse		1000
3	Within 200 feet of any lakebed, sinkhole or playa lake	500	feet
	(measured from the ordinary high-water mark)		
4	Within 300 feet from an occupied residence, school,	19,430	feet
	hospital, institution or church		
	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
	domestic or stock watering purposes, <b>or</b>		
	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)
			Critical
9	Within an unstable area (Karst Map)	Medium	High
	· · · · ·		Medium
			Low
10	Within a 100-year Floodplain	500	year
	,		,
11	Soil Type	Loamy	fine sand
11	зон туре	Loanly	ille Sallu
12	Ecological Classification	Loam	y Sand
	200 og iou ciussiiou		, 54
13	Geology	α	lpl
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<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)

	Closed			`						0 /		,	,	,		
		POD Sub-		Ω	Q	Λ									<b>13</b> 7-4	
POD Number	Code		County				Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater	Water Column	
<u>C 02797</u>		CUB	ED		2		22	23S	29E	596540	3572895*	656	200			
<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			
<u>C 02717</u>		CUB	ED	4	2	4	16	23S	29E	595817	3574407*	1233	400			
<u>C 01217 S</u>		CUB	ED	4	1	4	16	23S	29E	595413	3574403*	1543	350			
<u>C 02718</u>		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	į
<u>C 02720</u>		CUB	ED		2	1	21	23S	29E	594911	3573690*	1784	150			
<u>C 02721</u>		CUB	ED		2	3	21	23S	29E	594915	3572879*	1890	150			
<u>C 02808</u>		CUB	ED		2	3	16	23S	29E	594909	3574501*	2025	100			
<u>C 02809</u>		CUB	ED		2	3	16	23S	29E	594909	3574501*	2025	100			
<u>C 02707</u>		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			
<u>C 02794</u>		CUB	ED		4	3	10	23S	29E	596518	3575731*	2203	100			
<u>C 02795</u>		CUB	ED		4	3	10	23S	29E	596518	3575731*	2203	200			
<u>C 02613</u>		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 2	8 23S 291	E 595649	3570959*	2777	170		
<u>C 02705</u>	C	ED	2 1	7 23S 291	E 593902	3575093*	3193	68	28	40
<u>C 02608</u>	CUB	ED	3 1 4 1	7 23S 291	E 593598	3574387*	3206	400		
<u>C 04597 POD1</u>	CUB	ED	1 1 4 2	4 23S 291	E 600124	3573002	3476			
<u>C 04597 POD2</u>	CUB	ED	1 1 4 2	4 23S 291	E 600122	3572959 🌍	3481			
<u>C 04597 POD4</u>	CUB	ED	1 1 4 2	4 23S 291	E 600159	3572947	3519			
<u>C 04597 POD3</u>	CUB	ED	1 1 4 2	4 23S 291	E 600172	3572991	3524			
<u>C 04597 POD5</u>	CUB	ED	2 1 4 2	4 23S 291	E 600198	3572931	3560			
C 03059 EXPLORE	CUB	ED	4 1 3 1	7 238 291	E 592993	3574378*	3790		65	
<u>C 02806</u>	CUB	ED	1 1 0	9 23S 291	E 594473	3576927*	4052	100		
<u>C 02807</u>	CUB	ED	1 1 0	9 23S 291	E 594473	3576927*	4052	100		
<u>C 04472 POD1</u>	CUB	ED	2 2 4 1	3 23S 291	E 600639	3574619	4096		37	
<u>C 02792</u>	CUB	ED	4 3 0	4 23S 291	E 594868	3577336*	4215	200		
<u>C 02793</u>	CUB	ED	4 3 0	4 23S 291	E 594868	3577336*	4215	100		
<u>C 04594 POD2</u>	CUB	ED	4 2 2 1	3 23S 291	E 600604	3575232	4267	42	34	8
<u>C 04594 POD5</u>	CUB	ED	4 2 2 1	3 23S 291	E 600626	3575236	4289	30	30	0
<u>C 04594 POD1</u>	CUB	ED	4 2 2 1	3 23S 291	E 600629	3575241	4294	36	31	5
<u>C 04594 POD7</u>	CUB	ED	4 2 2 1	3 23S 291	E 600659	3575217	4311	34	28	6
<u>C 04594 POD6</u>	CUB	ED	4 2 2 1	3 23S 291	E 600659	3575220	4313	34	28	6
<u>C 04594 POD3</u>	CUB	ED	4 2 2 1	3 23S 291	E 600645	3575280	4324	38	27	11
<u>C 03587 POD1</u>	CUB	ED	1 4 3 2	9 23S 291	E 593338	3570754	4353	99	44	55
<u>C 04594 POD4</u>	CUB	ED	4 2 2 1	3 23S 291	E 600704	3575224	4356	45	28	17
<u>C 02706</u>	C	ED	4 1	8 23S 291	E 592302	3574291*	4451	17	10	7
<u>C 03587 POD2</u>	CUB	ED	1 2 4 1	9 23S 291	E 592213	3572706	4551	77	16	61
<u>C 02486</u>	C	ED	3 2 3 1	9 23S 30I	E 601304	3572832*	4668	350		
<u>C 02804</u>	CUB	ED	2 1 0	8 23S 291	E 593262	3576905*	4806	100		

<u>C 02805</u> 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 To

X Y

C 02797

Q64 Q16 Q4 Sec Tws Rng

596540 3572895\*

**Plug Date:** 

5\* 🏺

**Driller License:** 1348

**Driller Company:** 

TAYLOR WATER WELL SERVICE

**Driller Name:** TAYLOR, CLINTON E.

Drill Start Date:

Log File Date:

PCW Rcv Date:

PCW Rcv Date: Source:
Pipe Discharge Size: Estimated Yield:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:3.00Depth Well:200 feetDepth Water:

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, or suitability for any particular purpose of the data.

3/21/23 3:36 PM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



## 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 23 238 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



	OSE POD NO	(WELL NO	)			AG ID NO			OSE FILE NO	S).	•		
No	POD 14				BH 14				C-4326				
GENERAL AND WELL LOCATION	WELL OWN XTO Ener				PHONE (OPTI 432-221-73:								
T	WELL OWNER MAILING ADDRESS										STATE		ZIP
WEL	522 W Mermond, Suite 704										NM	88220	
AND	WELL		Ď	EGREES 32	MINU 1		SECOND						
Z L	LOCATIO (FROM GF		TITUDE				14.49	N	]	' REQUIRED ONE TEN QUIRED: WGS 84	TH OF A S	SECOND	
NE NE		LO	NGITUDE	103	5′		25.95		<u> </u>				
1. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIIP, RANGE) WHERE AVAILABLE  North East Quarter of South West Quarter of Section 23, Township 23 South, Range 29 East, Eddy County, New Mexico												
	LICENSE NO	),	NAME OF LICENSED	DRILLER		· .				NAME OF WELL DR	ILLING C	OMPANY	
	166	54			Shawr	n Cain				C	ascade E	Drilling	
	DRILLING S		DRILLING ENDED	DEPTH OF CO		WELL (FT)	F	ORE HO	LE DEPTH (FT)	DEPTH WATER FIR		UNTERED (FT	)
	5/11/2	2019	5/11/2019	·	58		ì		58		54		
Z	COMPLETED WELL IS. ARTESIAN DRY HOLE 7 SHALLOW (UNCONFINED)							TNED)		STATIC WATER LEV	/EL IN CO 48		ELL (FT)
<b>4TIC</b>	DRILLING FLUID: 7 AIR MUD ADDITIVES - SPECIFY												
CASING INFORMATION	DRILLING METHOD ROTARY HAMMER CABLE TOOL 7 OT								ER – SPECIFY. Sonic				
	DEPTH	BORE HOLE	CASING	CASING MATERIAL AND/OR				ASING	CASING	CASING WALL		SLOT	
SING	FROM TO DIAM (inches)				(include each casing string, and				NECTION TYPE	INSIDE DIAM.	THICKNESS (inches)		SIZE (inches)
CA.	0	58	6	note	sections (	or screen)		add coupl	ling diameter)		1	•	-
8 5	0	48	<del> </del>	2" PVC Blank			Flush Th	read SCH 40	2.067	.154"		<del>                                     </del>	
TI	48	58		-	2" PVC Screen			Flush Th	read SCH 40	2.067	.154"		.020
DRILLING &									·			· · ·	<del>                                     </del>
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	D===:	/C . 1 ()	<u> </u>	<u>1</u>							<u> </u>		<u> </u>
7	<u> </u>	(feet bgl)	BORE HOLE DIAM. (inches)	1		ULAR SEAI CK SIZE-RA				AMOUNT (cubic feet)		-METHO PLACEN	
ERIA	FROM 0	2	10							.5		Pour	
ATI	2	45	6	<del>                                     </del>	Bentonite Chips					7.5		Pour	
ANNULAR MATERIAL	45	58	6	1		12-20 S	Sand			2.5		Pour	
ULA				†			·						
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FOR	OSE INTER	NAL HEE							WD 2	O WELL DECORD	a 1 00 /	U: 04/7	0/10)

FILE NO. C-4326	POD NO.	4	TRN NO.	448985	
LOCATION	35.29 <i>E.</i> 23.324	- "	WELL TAG ID NO		PAGE 1 OF 2

	DEPTH (1	feet hgl)					ESTIMATED				
	DEI III (		THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNT		WATER	YIELD FOR				
	FROM	то	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACT		BEARING?	WATER- BEARING				
	i kom		(,	(attach supplemental sheets to fully describe all	l units)	(YES / NO)	ZONES (gpm)				
	0	4	4	Open Excavation		Y √N					
	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 ✓N					
•	45	54	9	gray-light green DOLOMITE		✓Y N					
	54	58	4	dark gray-light gray CLAY		Y ✓N					
VEL	Y N										
OF V											
90						Y N					
101						Y N					
90						Y N					
EOI						Y N					
4. HYDROGEOLOGIC LOG OF WELL						Y N					
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PAGE 2 OF 2

LOCATION



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#### **National Water Information System: Web Interface**

**USGS Water Resources** 

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

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#### USGS 321717103561001 23S.29E.24.41321

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

#### Well Site

#### **DESCRIPTION:**

Latitude 32°17'17", Longitude 103°56'10" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 3,034 feet above NAVD88.

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

Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

Data Type	<b>Begin Date</b>	End Date	Count	
Field groundwater-level measurements	1983-02-02	2003-01-29	4	
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 <a href="New Mexico Water Science Center Water-Data">New Mexico Water Science Center Water-Data</a> <a href="Inquiries">Inquiries</a>

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Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency\_code=USGS&site\_no=321717103561001

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2023-03-21 17:18:20 EDT

0.31 0.29 caww01





## LagunaSalado22Fed4 River 2.98 Miles



March 21, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

etland

Freshwater Forested/Shrub Wetland

Riverine

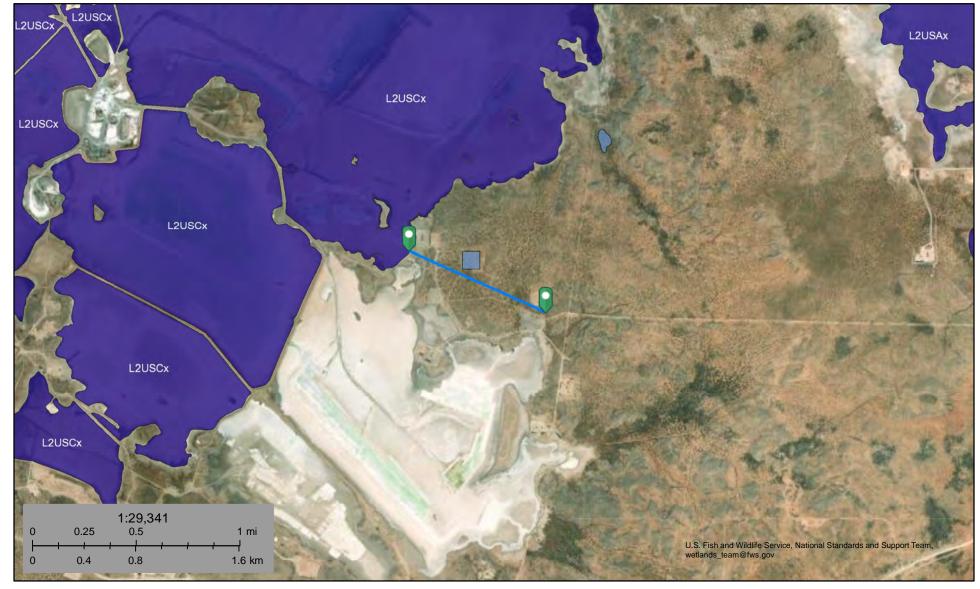
Lake

Other

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



## Laguna Salado 22 Federal #004H Lake0.6



October 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.



October 19, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



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.





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#### **National Water Information System: Web Interface**

**USGS Water Resources** 

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

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- 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	<b>Begin Date</b>	End Date	Count				
Field groundwater-level measurements	1954-11-08	1954-11-08	1				
Revisions	Unavailable (site:0) (timeseries:						

#### **OPERATION:**

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <a href="New Mexico Water Science Center Water-Data">New Mexico Water Science Center Water-Data</a> <a href="Inquiries">Inquiries</a>

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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 a	nnum)			Well	(R=POD has been replaced and no longer serves this file, C=the file is closed)		rs are 1=N			=SW 4=SE) est)	(NAD	83 UTM in me
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				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
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Record Count: 25

UTMNAD83 Radius Search (in meters):

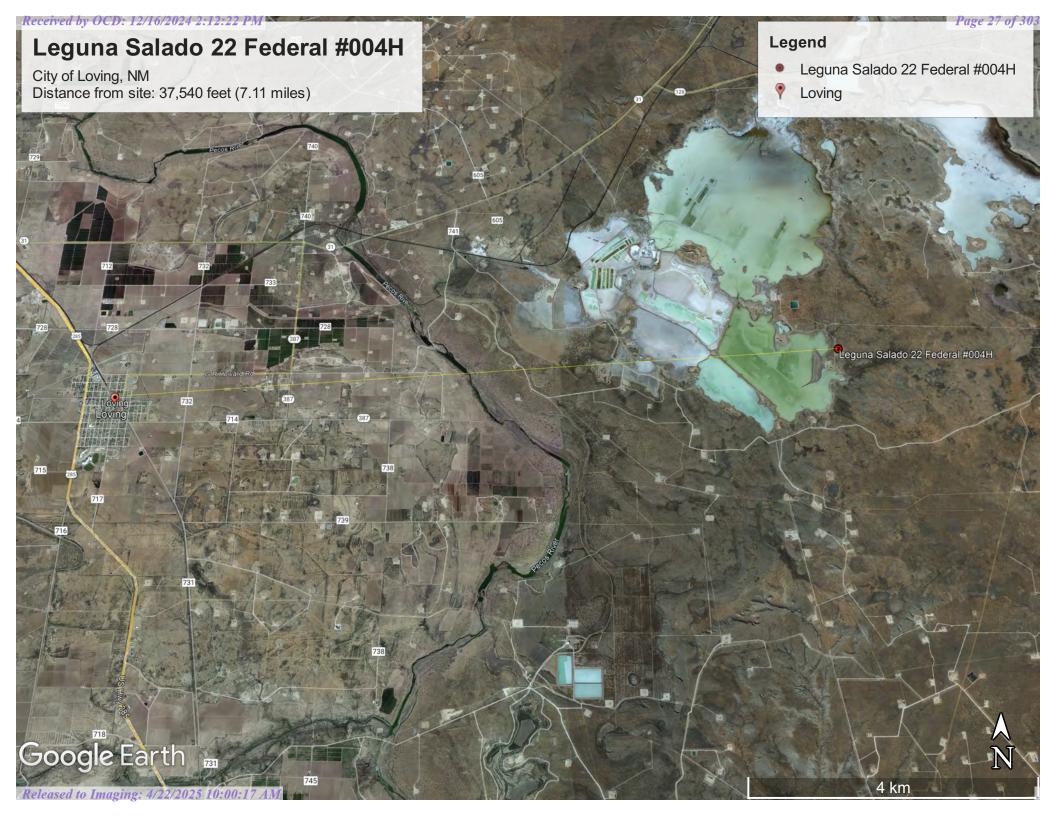
Easting (X): 596688 Northing (Y): 3573534 Radius: 1610

Sorted by: Distance

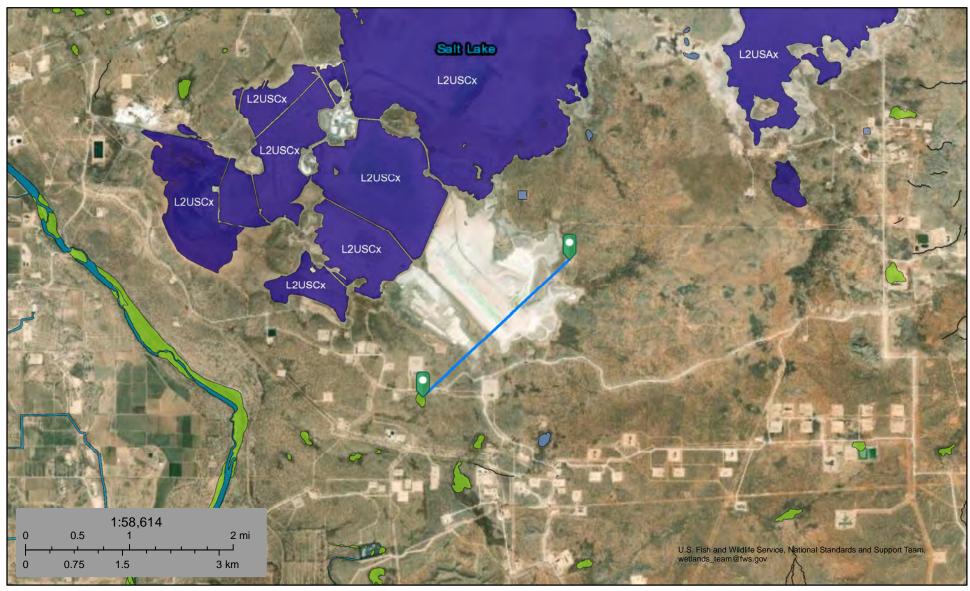
\*UTM location was derived from PLSS - see Help

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

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



## 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

Other

Riverine

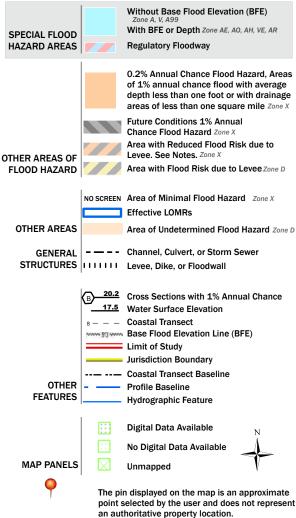
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# National Flood Hazard Layer FIRMette





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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/19/2023 at 11:36 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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.





**VRCS** 

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.

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Soil Map	
Legend	
Map Unit Legend	
Map Unit Descriptions	
Eddy Area, New Mexico	
PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded	
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.

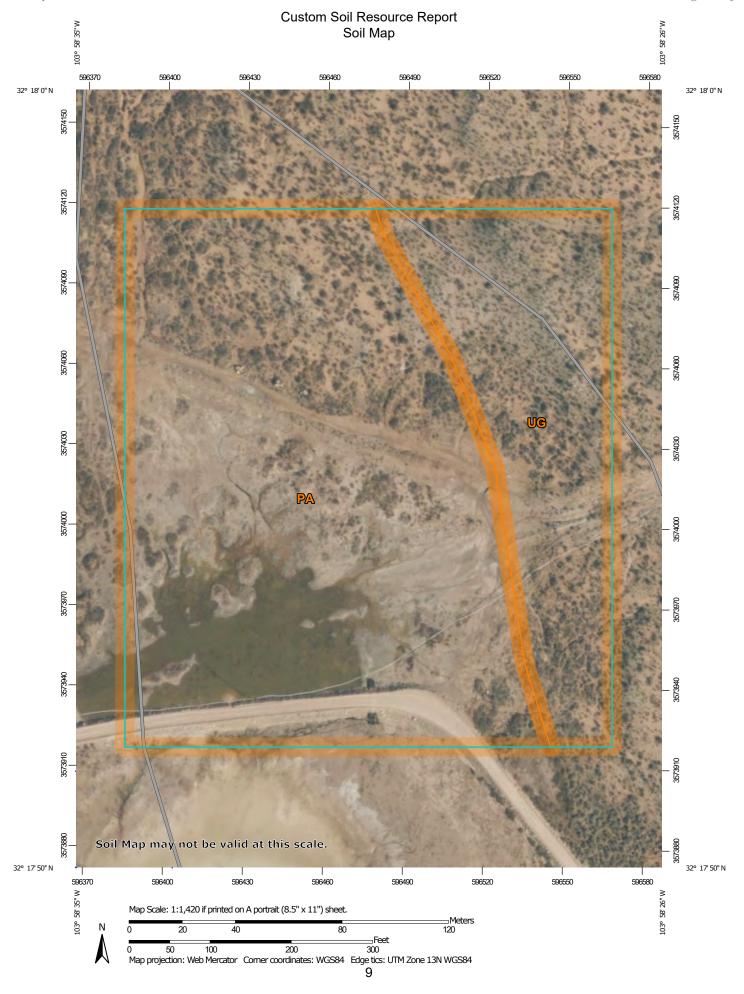
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

#### 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.



#### MAP LEGEND

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**Water Features** 

Transportation

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00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons

Soil Map Unit Lines Soil Map Unit Points

#### Special Point Features

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Blowout

Borrow Pit

Clay Spot

**Closed Depression** 

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

### 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 19, Sep 7, 2023

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
PA	Pajarito loamy fine sand, 0 to 3 percent slopes, eroded	6.6	72.8%
UG	Upton gravelly loam, 0 to 9 percent slopes	2.5	27.2%
Totals for Area of Interest		9.1	100.0%

## **Map Unit Descriptions**

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

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

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

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

onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

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

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

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

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

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

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

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

### **Eddy Area, New Mexico**

### PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

#### **Map Unit Setting**

National map unit symbol: 1w54 Elevation: 2,700 to 5,500 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 250 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Pajarito and similar soils: 98 percent Minor components: 2 percent

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

#### **Description of Pajarito**

#### Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

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

Parent material: Mixed alluvium and/or eolian sands

#### **Typical profile**

H1 - 0 to 13 inches: loamy fine sand H2 - 13 to 36 inches: fine sandy loam H3 - 36 to 60 inches: fine sandy loam

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

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

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

#### Wink

Percent of map unit: 1 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### Berino

Percent of map unit: 1 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### 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

#### Upton

Percent of map unit: 1 percent

Ecological site: R070BC025NM - Shallow

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

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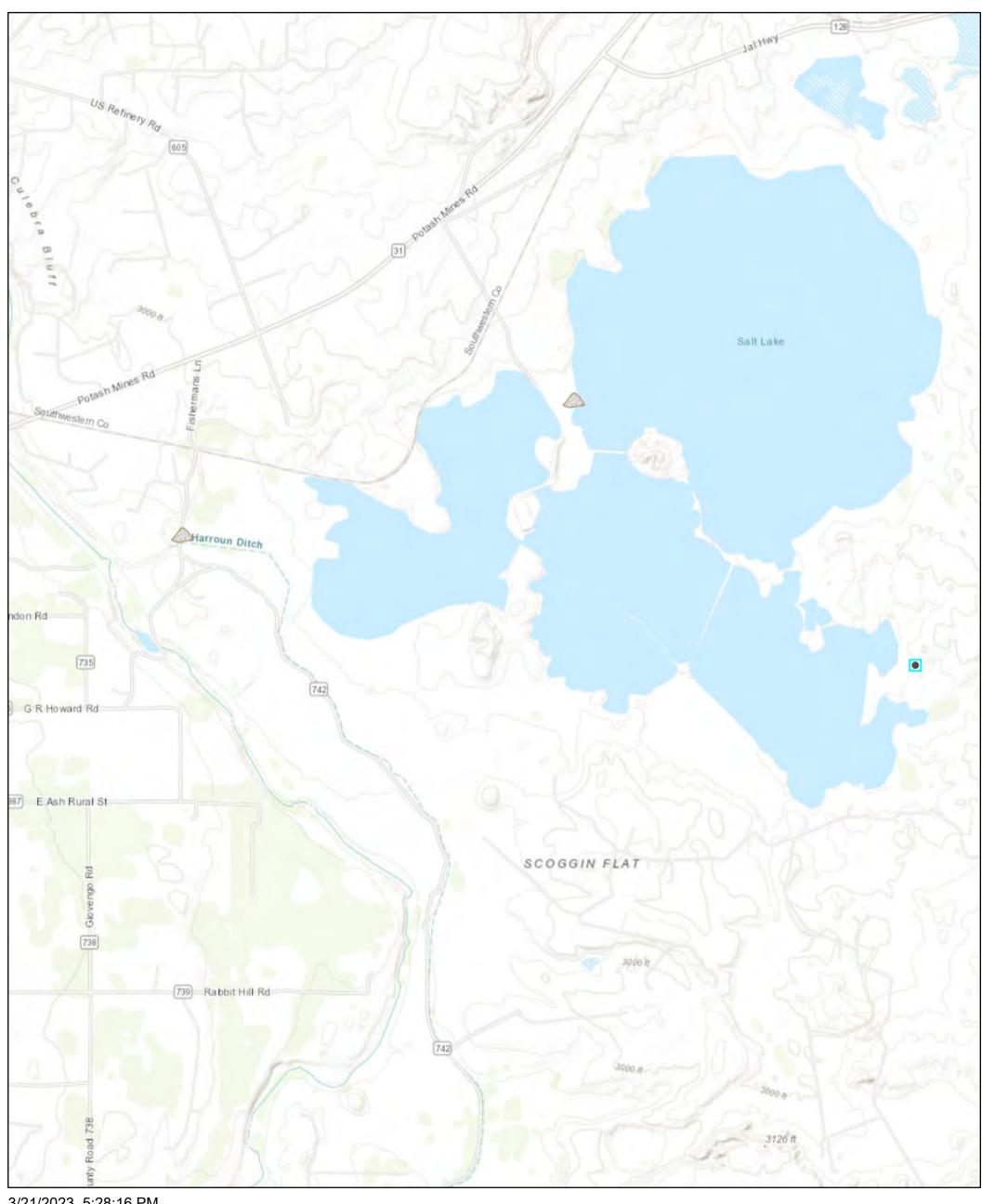
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# Leguna Salado 22 Fed 4H



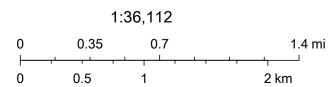
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Registered Mines

Aggregate, Stone etc.



Salt



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



# Ecological site R070BD003NM Loamy Sand

Accessed: 10/19/2023

#### **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.

#### **Associated sites**

R070BD004NM	<b>Sandy</b> Sandy
R070BD005NM	<b>Deep Sand</b> Deep Sand

#### Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

#### Physiographic features

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

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

Table 2. Representative physiographic features

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

#### **Climatic features**

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

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

Table 3. Representative climatic features

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

#### Influencing water features

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

#### Soil features

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

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

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

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

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

Characteristic soils are:

Maljamar

Berino

Parjarito

**Palomas** 

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid

Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

#### **Ecological dynamics**

#### Overview

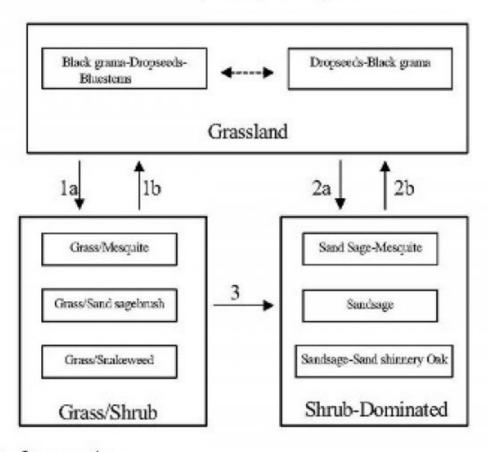
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured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

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

#### State and transition model

### Plant Communities and Transitional Pathways (diagram):

# MLRA-42, SD-3, Loamy Sand



- Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

# State 1 Historic Climax Plant Community

# **Community 1.1 Historic Climax Plant Community**

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

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

Table 5. Annual production by plant type

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

#### Table 6. Ground cover

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

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

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

State 2 Grass/Shrub

Community 2.1 Grass/Shrub





\*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shirnery oak \*Oracs cover law to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

# State 3 Shrub Dominated

# Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

#### Additional community tables

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

	sand sagebrush	ARFI2	Artemisia filifolia	61–123	-
	Havard oak	QUHA3	Quercus havardii	61–123	_
11	Shrub			34–61	
	fourwing saltbush	ATCA2	Atriplex canescens	37–61	_
	featherplume	DAFO	Dalea formosa	37–61	_
12	Shrub			37–61	
	jointfir	EPHED	Ephedra	37–61	_
	littleleaf ratany	KRER	Krameria erecta	37–61	_
13	Other Shrubs			37–61	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	37–61	_
Forb					
14	Forb			61–123	
	leatherweed	CRPOP	Croton pottsii var. pottsii	61–123	_
	Indian blanket	GAPU	Gaillardia pulchella	61–123	_
	globemallow	SPHAE	Sphaeralcea	61–123	_
15	Forb			12–37	
	woolly groundsel	PACA15	Packera cana	12–37	_
16	Forb			61–123	
	touristplant	DIWI2	Dimorphocarpa wislizeni	61–123	_
	woolly plantain	PLPA2	Plantago patagonica	61–123	_
17	Other Forbs	•		37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	37–61	_

#### **Animal community**

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

#### **Hydrological functions**

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

#### **Recreational uses**

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

#### **Wood products**

This site has no potential for wood products.

#### Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, blsck grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well 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  $100 - 76 \ 2.3 - 3.5$   $75 - 51 \ 3.0 - 4.5$   $50 - 26 \ 4.6 - 9.0$   $25 - 0 \ 9.1 +$ 

#### 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. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

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#### **Contributors**

Don Sylvester Quinn Hodgson

#### Rangeland health reference sheet

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

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

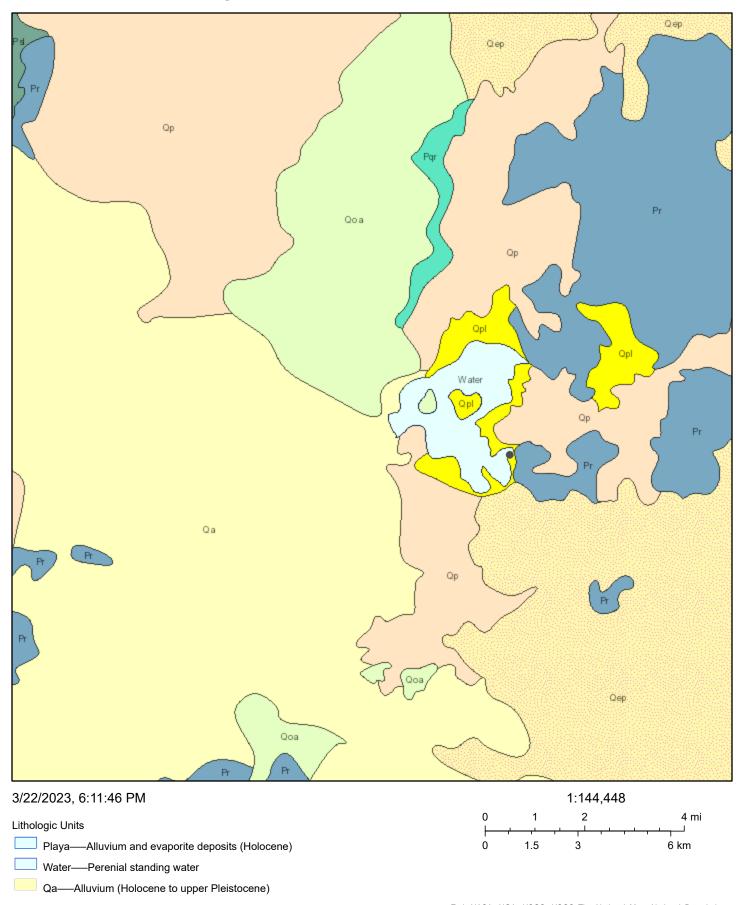
#### Indicators

IIIC	ilicators
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:

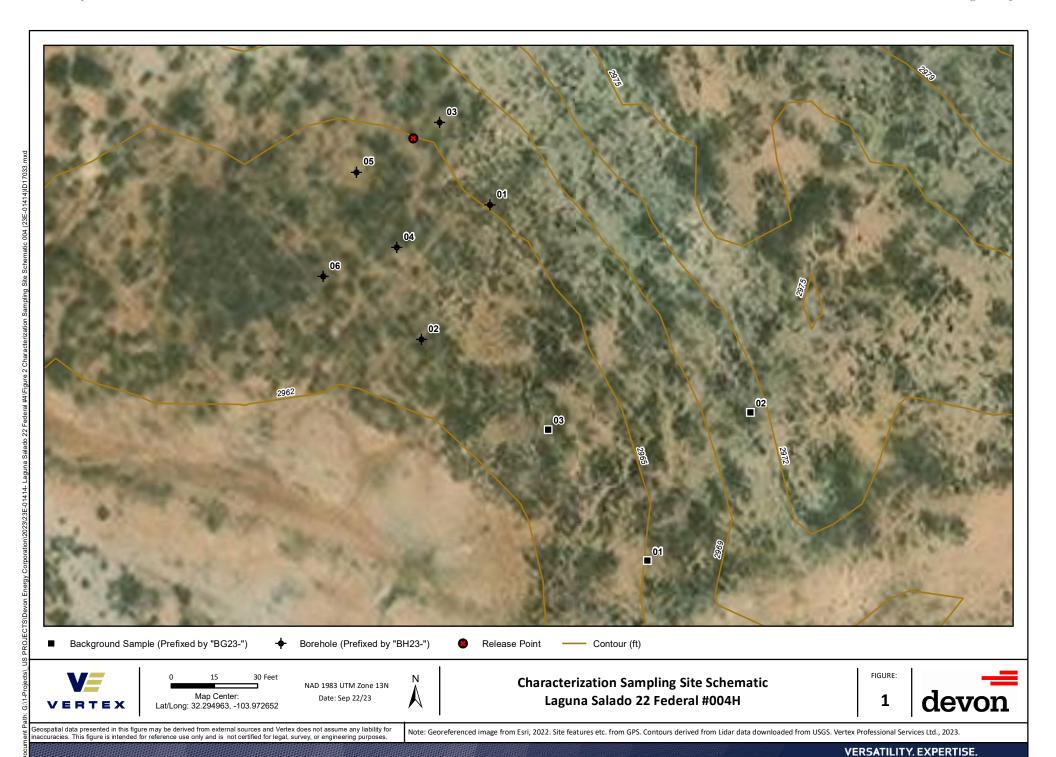
17. Perennial plant reproductive capability:

# 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;

### **ATTACHMENT 3**



Released to Imaging: 4/22/2025 10:00:17 AM

### **ATTACHMENT 4**

**Client Name: Devon Energy** 

Site Name: Laguna Salado 22 Federal 4 Pasture

NMOCD Tracking #: NAPP2317746199

Project #: 23E-01414

Lab Reports:2308F18 and 2309072

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
	Sample Description Field Screening Petroleum Hydrocarbons												
						Volatile Extractable						Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BG23-01	0	Friday, August 25, 2023	-	58	0	ND	ND	ND	ND	ND	ND	ND	ND
	2	Friday, August 25, 2023	-	83	2,273	ND	ND	ND	ND	ND	ND	ND	1,700
BG23-02	0	Friday, August 25, 2023	-	91	14	ND	ND	ND	ND	ND	ND	ND	ND
	2	Friday, August 25, 2023	-	116	698	ND	ND	ND	ND	ND	ND	ND	970
BG23-03	0	Friday, August 25, 2023	-	202	28,598	ND	ND	ND	ND	ND	ND	ND	17,000
	2	Friday, August 25, 2023	-	86	5,293	ND	ND	ND	ND	ND	ND	ND	4,900
BG23-	Averaged Background Sample Lab Data at Varing Depths												
Averages	0	NA	-	-	-	ND	ND	ND	ND	ND	ND	ND	11,667
	2	NA	-	-	-	ND	ND	ND	ND	ND	ND	ND	2,523
BH23-01	0	Friday, August 25, 2023	-	84	15,957	ND	ND	ND	ND	ND	ND	ND	35000
	2	Friday, August 25, 2023	-	72	4,443	ND	ND	ND	ND	ND	ND	ND	4000
BH23-02	0	Friday, August 25, 2023	-	73	19,548	ND	ND	ND	ND	ND	ND	ND	18000
B1123-02	2	Friday, August 25, 2023	-	100	9,250	ND	ND	ND	ND	ND	ND	ND	7800
D1122 02	0	Friday, August 25, 2023	-	98	8,526	ND	ND	ND	ND	ND	ND	ND	8200
BH23-03	2	Friday, August 25, 2023	-	77	4,148	ND	ND	ND	ND	ND	ND	ND	3100
	0	Friday, August 25, 2023	-	414	28,572	ND	ND	ND	ND	ND	ND	ND	67000
BH23-04	2	Friday, August 25, 2023	-	87	4,784	ND	ND	ND	ND	ND	ND	ND	5600
	0	Thursday, August 31, 2023	-	102	12.895	ND	ND	ND	ND	ND	ND	ND	9400
BH23-05	2	Thursday, August 31, 2023	-	76	5,933	ND	ND	ND	ND	ND	ND	ND	9800
	0	Thursday, August 31, 2023	0	68	13,266	ND	ND	ND	ND	ND	ND	ND	8100
BH23-06	2	Thursday, August 31, 2023	0	91	5,917	ND	ND ND	ND	ND	ND	ND	ND	4600
	4	mursuay, August 31, 2023	U	31	3,311	שוו	NU	אוט	שוו	שוו	שוו	שוו	4000

<sup>&</sup>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)



<sup>&</sup>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.: 2309072

September 12, 2023

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

FAX:

RE: Laguna Salado 22 Fed 4 Pasture

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/2/2023 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: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 0'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:35:00 AM

 Lab ID:
 2309072-001
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.1 mg/Kg 1 9/6/2023 4:28:14 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 4:28:14 PM Surr: DNOP 96.6 69-147 %Rec 1 9/6/2023 4:28:14 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/6/2023 11:52:00 PM 4.8 mg/Kg 1 Surr: BFB 99.4 15-244 %Rec 1 9/6/2023 11:52:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/6/2023 11:52:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/6/2023 11:52:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/6/2023 11:52:00 PM Xylenes, Total ND 0.096 mg/Kg 1 9/6/2023 11:52:00 PM Surr: 4-Bromofluorobenzene 89.4 39.1-146 %Rec 1 9/6/2023 11:52:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 9/7/2023 10:03:19 AM 17000 1500 500

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 10

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:40:00 AM

 Lab ID:
 2309072-002
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 9/6/2023 4:51:58 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/6/2023 4:51:58 PM Surr: DNOP 91.9 69-147 %Rec 1 9/6/2023 4:51:58 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 12:57:00 AM 5.0 mg/Kg 1 Surr: BFB 98.1 15-244 %Rec 1 9/7/2023 12:57:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 12:57:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 9/7/2023 12:57:00 AM Ethylbenzene ND 0.050 mg/Kg 1 9/7/2023 12:57:00 AM Xylenes, Total ND mg/Kg 1 9/7/2023 12:57:00 AM 0.099 Surr: 4-Bromofluorobenzene 89.0 39.1-146 %Rec 1 9/7/2023 12:57:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 9/7/2023 10:15:40 AM 4900 300 100

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

I not in Range
Limit Page 2 of 10

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:10:00 AM

 Lab ID:
 2309072-003
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/6/2023 5:15:49 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/6/2023 5:15:49 PM
Surr: DNOP	91.6	69-147	%Rec	1	9/6/2023 5:15:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/7/2023 2:02:00 AM
Surr: BFB	96.8	15-244	%Rec	1	9/7/2023 2:02:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/7/2023 2:02:00 AM
Toluene	ND	0.048	mg/Kg	1	9/7/2023 2:02:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/7/2023 2:02:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	9/7/2023 2:02:00 AM
Surr: 4-Bromofluorobenzene	89.6	39.1-146	%Rec	1	9/7/2023 2:02:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	9400	600	mg/Kg	200	9/7/2023 10:28:01 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 10

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:15:00 AM

 Lab ID:
 2309072-004
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 9/6/2023 5:39:41 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 5:39:41 PM Surr: DNOP 95.5 69-147 %Rec 1 9/6/2023 5:39:41 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 2:24:00 AM 4.7 mg/Kg 1 Surr: BFB 104 15-244 %Rec 1 9/7/2023 2:24:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 2:24:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/7/2023 2:24:00 AM Ethylbenzene ND 0.047 mg/Kg 1 9/7/2023 2:24:00 AM Xylenes, Total ND 0.094 mg/Kg 1 9/7/2023 2:24:00 AM Surr: 4-Bromofluorobenzene 90.1 39.1-146 %Rec 1 9/7/2023 2:24:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 9/7/2023 10:40:23 AM 9800 300 100

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 10

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:20:00 AM

 Lab ID:
 2309072-005
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/6/2023 6:03:48 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/6/2023 6:03:48 PM
Surr: DNOP	90.9	69-147	%Rec	1	9/6/2023 6:03:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/7/2023 2:46:00 AM
Surr: BFB	101	15-244	%Rec	1	9/7/2023 2:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/7/2023 2:46:00 AM
Toluene	ND	0.048	mg/Kg	1	9/7/2023 2:46:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	9/7/2023 2:46:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	9/7/2023 2:46:00 AM
Surr: 4-Bromofluorobenzene	91.6	39.1-146	%Rec	1	9/7/2023 2:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	8100	600	mg/Kg	200	9/7/2023 10:52:44 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 10

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-06 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:25:00 AM

 Lab ID:
 2309072-006
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 9/6/2023 6:27:56 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 6:27:56 PM Surr: DNOP 84.5 69-147 %Rec 1 9/6/2023 6:27:56 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 3:08:00 AM 4.7 mg/Kg 1 Surr: BFB 99.8 15-244 %Rec 1 9/7/2023 3:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 3:08:00 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/7/2023 3:08:00 AM Ethylbenzene ND 0.047 mg/Kg 1 9/7/2023 3:08:00 AM Xylenes, Total ND 0.093 mg/Kg 1 9/7/2023 3:08:00 AM Surr: 4-Bromofluorobenzene 92.6 39.1-146 %Rec 1 9/7/2023 3:08:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 4600 300 100 9/7/2023 11:05:05 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 6 of 10

## **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2309072** 

12-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77340 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77340 RunNo: 99513

Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3633388 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-77340 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77340 RunNo: 99513

Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3633389 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 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 7 of 10

#### Hall Environmental Analysis Laboratory, Inc.

4.3

WO#: **2309072** 

12-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: <b>MB-77317</b>	SampT	уре: <b>МВ</b>	LK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	n ID: <b>773</b>	317	F	RunNo: 99	9483						
Prep Date: 9/6/2023	Analysis D	ate: 9/6	6/2023	5	SeqNo: 36	32800	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	9.1		10.00		90.7	69	147					

Sample ID: LCS-77317 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 77317 RunNo: 99483 Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3632801 Units: mg/Kg SPK Ref Val %REC %RPD Analyte PQL SPK value LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 61.9 54 50.00 108 130

85.5

69

147

5.000

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.

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 10

#### Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#: **2309072** 

12-Sep-23

**Client:** Devon Energy

Sample ID: 2309072-001ams

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: mb-77310 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 77310 RunNo: 99469 Prep Date: 9/5/2023 Analysis Date: 9/6/2023 SeqNo: 3632342 Units: mq/Kq SPK Ref Val %RPD **RPDLimit** Analyte Result PQL SPK value %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 107 15 244

Client ID: BG23-03 0' Batch ID: 77310 RunNo: 99469 Analysis Date: 9/7/2023 Prep Date: 9/5/2023 SeqNo: 3632344 Units: mg/Kg HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.8 24.18 104 70 Surr: BFB 2300 967 1 234 15 244

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2309072-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BG23-03 0' Batch ID: 77310 RunNo: 99469 Prep Date: 9/5/2023 Analysis Date: 9/7/2023 SeqNo: 3632345 Units: mg/Kg %RPD PQL SPK value SPK Ref Val %REC **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) 23 4.8 24.15 95.5 70 130 8.90 20 Surr: BFB 221 2100 966.2 15 244 0 0

Sample ID: LCS-77310 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 77310 RunNo: 99469 Prep Date: 9/5/2023 Analysis Date: 9/6/2023 SeqNo: 3632755 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 25.00 92.0 70 130 5.0 Surr: BFB 2100 1000 213 15 244

#### Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2309072** 

12-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: Ics-77310	s	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	F	RunNo: 99	9469									
Prep Date: 9/5/2023 Analysis Date: 9/6/2023 SeqNo						SeqNo: <b>3632741</b> Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.89	0.025	1.000	0	88.5	70	130					
Toluene	0.89	0.050	1.000	0	89.4	70	130					
Ethylbenzene	0.91	0.050	1.000	0	90.7	70	130					
Xylenes, Total	2.7	0.10	3.000	0	90.6	70	130					
Surr: 4-Bromofluorobenzene 0.92 1.000					92.4	39.1	146					

Sample ID: <b>mb-77310</b>	Samp1	уре: МЕ	BLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batch	n ID: <b>77</b> 3	310	F	RunNo: 99								
Prep Date: 9/5/2023	Analysis D	)ate: <b>9/</b> 0	6/2023	5	SeqNo: 30	632742	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	0.89		1.000		89.0	39.1	146						

Sample ID: 2309072-002ams	3	TestCode: EPA Method 8021B: Volatiles								
Client ID: <b>BG23-03 2'</b>	Batcl	n ID: <b>773</b>	310	F	RunNo: 9					
Prep Date: 9/5/2023 Analysis Date: 9/7/2023 SeqNo: 3632745						Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9940	0	91.7	70	130			
Toluene	0.92	0.050	0.9940	0	92.7	70	130			
Ethylbenzene	0.94	0.050	0.9940	0	94.6	70	130			
Xylenes, Total	2.8	0.099	2.982	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9940		95.0	39.1	146			

Sample ID: 2309072-002amsd	SampT	ype: MS	De: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: <b>BG23-03 2'</b>	Batch	n ID: <b>773</b>	310	F							
Prep Date: 9/5/2023	Analysis D	Date: 9/7	7/2023	5	SeqNo: 36						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.025	0.9911	0	89.0	70	130	3.36	20		
Toluene	0.90	0.050	0.9911	0	90.5	70	130	2.66	20		
Ethylbenzene	0.92	0.050	0.9911	0	92.6	70	130	2.43	20		
Xylenes, Total	2.8	0.099	2.973	0	92.6	70	130	2.38	20		
Surr: 4-Bromofluorobenzene	0.90		0.9911		90.5	39.1	146	0	0		

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name: Devon Energy	Work Order Number	2309072		RcptNo: 1	
Received By: Tracy Casarrubias	9/2/2023 7:45:00 AM				
Completed By: Tracy Casarrubias	9/2/2023 7:57:20 AM				
Reviewed By: 1n 9/5/23		•	-		
1. 4312)					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u>					
3. Was an attempt made to cool the samples	?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗸	No 📙	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
0.0 %			🗆		
6. Sufficient sample volume for indicated test	,	Yes 🗹	No □ No □		
7. Are samples (except VOA and ONG) prope	rriy preserved?	Yes 🔽	No ✓	NA 🗆	
8. Was preservative added to bottles?		Yes 📙	INO 🖭	NA 🗆	
9. Received at least 1 vial with headspace <1.	/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	1
10. Were any sample containers received broken	en?	Yes	No 🗹	# of preserved	
44.5			$\Box$	bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 📙	for pH: (<2 or >1)	2 unless noted)
12. Are matrices correctly identified on Chain of	f Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		- 1-1
14. Were all holding times able to be met?		Yes 🗹	No 🗌	Checked by: m	e 9/2/23
(If no, notify customer for authorization.)			1		
Special Handling (if applicable)			<i>P</i>		
15. Was client notified of all discrepancies with	n this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail _	Phone  Fax	In Person	
Regarding:					
Client Instructions: Mailing address	phone number and Email	/Fax are miss	sing on COC-TM	C 9/2/23	
16. Additional remarks:					
17. Cooler Information					
		Seal Date	Signed By		
1 0.6 Good Y	es Yogi				

	ANALYSTS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis	†O:	MS 't' S	08III	280 (↑. 728 728	8/s \$405 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	(GR ide od 5 istalg NO <sub>3</sub>	MTD deficient of the street of	PX / PH:80 PH:80 PH:	988 989 999 999 288	>							The second section of the second section of the second section of the second section of the sect	mily to prove a particular message of			Remarks: Direct bill to Devon	8877811c.# 1/3	S MCCOCT @ VECTOR. CA	COLLEGE BEEN BEEN BOOK
I urn-Around I ime:	□ Standard   Rush 48h	Project Name:	Laguna Silado 12 Fed 4 Pasture	Project #:	7.35-01414	Project Manager:		Kent Stallings	Sampler: SW	On Ice: W Yes D No UNCO.	olers:	Cooler Temp(Including CF): () (4 - Ø > () (4 (°C)		Type	Your Ice our		003	hoo	\$00	1 000		Some of the second seco		The court of the William Court of the State	Control of the Contro	Via: Date	2111 Dann	Received by: Via. County Date Time	
Chain-of-Custody Record	Client: Dewn/Vertex		Mailing Address: On Ale		Phone #:	email or Fax#:	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	on:	□ Other	☐ EDD (Type)			ime Matrix	8/25/23 10:35 Soil 36,23-03 6'	865/310.40 1 BG23-03 2	881/23 9:10 BH23-050'	9:15	13	Spila 9:55 1 BH 25-06 21	7					Time:	Date: Time: Balling had him	A CONTRACTOR	במשבת וע בוותקיפוקב. דו בבו בוטבוץ עינה שעייבת רביים



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

OrderNo.: 2308F18

September 11, 2023

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

FAX:

RE: Laguna Salado 22 Fed 4 Pasture

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/29/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:05:00 AM

 Lab ID:
 2308F18-001
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

**Analyses** Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 8/30/2023 4:10:27 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/30/2023 4:10:27 AM Surr: DNOP 84.6 69-147 %Rec 1 8/30/2023 4:10:27 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 2:29:00 PM 5.0 mg/Kg 1 Surr: BFB 96.2 15-244 %Rec 1 9/1/2023 2:29:00 PM

EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	9/1/2023 2:29:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2023 2:29:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2023 2:29:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/1/2023 2:29:00 PM
Surr: 4-Bromofluorobenzene	91.7	39.1-146	%Rec	1	9/1/2023 2:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	8/30/2023 6:18:11 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 1 of 20

Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

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

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 10:10:00 AM

**Lab ID:** 2308F18-002 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/30/2023 4:21:08 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2023 4:21:08 AM
Surr: DNOP	90.0	69-147	%Rec	1	8/30/2023 4:21:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2023 2:51:00 PM
Surr: BFB	99.6	15-244	%Rec	1	9/1/2023 2:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/1/2023 2:51:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2023 2:51:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2023 2:51:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/1/2023 2:51:00 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146	%Rec	1	9/1/2023 2:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	1700	60	mg/Kg	20	8/30/2023 6:30:35 PM

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

Qualifiers:

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

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Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 0'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:15:00 AM

 Lab ID:
 2308F18-003
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

**Analyses** Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) mg/Kg ND 9.6 1 8/30/2023 4:31:47 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 4:31:47 AM Surr: DNOP 84.1 69-147 %Rec 1 8/30/2023 4:31:47 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 4.8 mg/Kg 9/1/2023 3:13:00 PM 1

Surr: BFB	98.2	15-244	%Rec	1	9/1/2023 3:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/1/2023 3:13:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2023 3:13:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2023 3:13:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/1/2023 3:13:00 PM
Surr: 4-Bromofluorobenzene	92.7	39.1-146	%Rec	1	9/1/2023 3:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	8/30/2023 6:43:00 PM

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

Qualifiers:

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

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Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 2'

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 10:30:00 AM

**Lab ID:** 2308F18-004 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/30/2023 4:42:27 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2023 4:42:27 AM
Surr: DNOP	87.2	69-147	%Rec	1	8/30/2023 4:42:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2023 3:35:00 PM
Surr: BFB	95.9	15-244	%Rec	1	9/1/2023 3:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/1/2023 3:35:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2023 3:35:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2023 3:35:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2023 3:35:00 PM
Surr: 4-Bromofluorobenzene	91.8	39.1-146	%Rec	1	9/1/2023 3:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	970	60	mg/Kg	20	8/30/2023 7:32:38 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

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Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

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

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 10:45:00 AM

2308F18-005 Lab ID: Matrix: SOIL Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/30/2023 4:53:10 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2023 4:53:10 AM
Surr: DNOP	90.6	69-147	%Rec	1	8/30/2023 4:53:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2023 3:56:00 PM
Surr: BFB	100	15-244	%Rec	1	9/1/2023 3:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 3:56:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2023 3:56:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2023 3:56:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2023 3:56:00 PM
Surr: 4-Bromofluorobenzene	93.0	39.1-146	%Rec	1	9/1/2023 3:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	35000	1500	mg/Kg	500	8/31/2023 1:49:21 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

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

Page 5 of 20 Reporting Limit

Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-01 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:50:00 AM

 Lab ID:
 2308F18-006
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/30/2023 5:03:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/30/2023 5:03:50 AM
Surr: DNOP	79.6	69-147	%Rec	1	8/30/2023 5:03:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2023 4:40:00 PM
Surr: BFB	96.8	15-244	%Rec	1	9/1/2023 4:40:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	9/1/2023 4:40:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2023 4:40:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2023 4:40:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2023 4:40:00 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146	%Rec	1	9/1/2023 4:40:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4000	150	mg/Kg	50	8/31/2023 2:01:42 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

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Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 12:30:00 PM

 Lab ID:
 2308F18-007
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 8/30/2023 5:14:33 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/30/2023 5:14:33 AM Surr: DNOP 77.5 69-147 %Rec 1 8/30/2023 5:14:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 5:02:00 PM 5.0 mg/Kg 1 Surr: BFB 98.8 15-244 %Rec 1 9/1/2023 5:02:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 5:02:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 9/1/2023 5:02:00 PM Ethylbenzene ND 0.050 mg/Kg 1 9/1/2023 5:02:00 PM Xylenes, Total ND mg/Kg 1 9/1/2023 5:02:00 PM 0.10 Surr: 4-Bromofluorobenzene 92.0 39.1-146 %Rec 1 9/1/2023 5:02:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 8/31/2023 2:14:03 PM 18000 600 200

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

QL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 2'

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 12:45:00 PM

**Lab ID:** 2308F18-008 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/30/2023 5:25:23 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2023 5:25:23 AM
Surr: DNOP	75.6	69-147	%Rec	1	8/30/2023 5:25:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2023 5:24:00 PM
Surr: BFB	97.8	15-244	%Rec	1	9/1/2023 5:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 5:24:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2023 5:24:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2023 5:24:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2023 5:24:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146	%Rec	1	9/1/2023 5:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	7800	300	mg/Kg	100	8/31/2023 2:26:24 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

ple pH Not In Range
Orting Limit Page 8 of 20

Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

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

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 12:40:00 PM

**Lab ID:** 2308F18-009 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/30/2023 5:36:14 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2023 5:36:14 AM
Surr: DNOP	80.6	69-147	%Rec	1	8/30/2023 5:36:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2023 5:46:00 PM
Surr: BFB	101	15-244	%Rec	1	9/1/2023 5:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 5:46:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2023 5:46:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2023 5:46:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2023 5:46:00 PM
Surr: 4-Bromofluorobenzene	90.8	39.1-146	%Rec	1	9/1/2023 5:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	8200	300	mg/Kg	100	8/31/2023 2:38:44 PM

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

Qualifiers:

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

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-03 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 12:45:00 PM

 Lab ID:
 2308F18-010
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/30/2023 5:47:05 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2023 5:47:05 AM
Surr: DNOP	78.1	69-147	%Rec	1	8/30/2023 5:47:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2023 6:08:00 PM
Surr: BFB	96.3	15-244	%Rec	1	9/1/2023 6:08:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.023	mg/Kg	1	9/1/2023 6:08:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2023 6:08:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2023 6:08:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	9/1/2023 6:08:00 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146	%Rec	1	9/1/2023 6:08:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	3100	150	mg/Kg	50	8/31/2023 2:51:06 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

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 1:45:00 PM

 Lab ID:
 2308F18-011
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/30/2023 5:57:50 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2023 5:57:50 AM
Surr: DNOP	77.0	69-147	%Rec	1	8/30/2023 5:57:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2023 6:29:00 PM
Surr: BFB	96.9	15-244	%Rec	1	9/1/2023 6:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 6:29:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2023 6:29:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2023 6:29:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2023 6:29:00 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146	%Rec	1	9/1/2023 6:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	67000	3000	mg/Kg	1000	8/31/2023 5:23:56 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 Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-04 2'

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 1:50:00 PM

**Lab ID:** 2308F18-012 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (	ORGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/31/2023 2:23:27 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/31/2023 2:23:27 PM
Surr: DNOP	100	69-147	%Rec	1	8/31/2023 2:23:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2023 12:29:17 PM
Surr: BFB	93.6	15-244	%Rec	1	9/1/2023 12:29:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 12:29:17 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2023 12:29:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2023 12:29:17 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2023 12:29:17 PM
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/1/2023 12:29:17 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	5600	300	mg/Kg	100	8/31/2023 3:15:47 PM

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

Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77199 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77199 RunNo: 99351

Prep Date: 8/30/2023 Analysis Date: 8/30/2023 SeqNo: 3626420 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-77199 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77199 RunNo: 99351

Prep Date: 8/30/2023 Analysis Date: 8/30/2023 SeqNo: 3626421 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.0 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Project: Laguna	Salado 22 Fed 4 Pasture	
Sample ID: LCS-77167	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 77167	RunNo: 99274
Prep Date: 8/29/2023	Analysis Date: 8/30/2023	SeqNo: <b>3623887</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50.00	0 96.6 61.9 130
Surr: DNOP	4.0 5.000	79.2 69 147
Sample ID: <b>MB-77167</b>	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 77167	RunNo: 99274
Prep Date: 8/29/2023	Analysis Date: 8/30/2023	SeqNo: <b>3623890</b> Units: <b>mg/Kg</b>
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) Surr: DNOP	ND 50 10 10.00	101 69 147
		101 00 141
Sample ID: LCS-77177	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: <b>77177</b>	RunNo: 99380
Prep Date: 8/29/2023	Analysis Date: <b>8/31/2023</b>	SeqNo: <b>3627016</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	3
Surr: DNOP	5.7 5.000	114 69 147
Sample ID: LCS-77185	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 77185	RunNo: 99380
Prep Date: 8/30/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627017</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	61 10 50.00	0 121 61.9 130
Surr: DNOP	6.6 5.000	131 69 147
Sample ID: <b>MB-77177</b>	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: <b>3627018</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	12 10.00	116 69 147
Sample ID: <b>MB-77185</b>	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 77185	RunNo: 99380
Prep Date: 8/30/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627019</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	

#### 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** *11-Sep-23* 

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID:         MB-77185         SampType:         MBLK         TestCode:         EPA Method 8015M/D:         Diesel Range           Client ID:         PBS         Batch ID:         77185         RunNo:         99380           Prep Date:         8/30/2023         Analysis Date:         8/31/2023         SeqNo:         3627019         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD           Motor Oil Range Organics (MRO)         ND         50           Surr:         DNOP         13         10.00         126         69         147	Organics
Prep Date: 8/30/2023 Analysis Date: 8/31/2023 SeqNo: 3627019 Units: mg/Kg  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD  Motor Oil Range Organics (MRO) ND 50	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Motor Oil Range Organics (MRO) ND 50	
Motor Oil Range Organics (MRO) ND 50	
	RPDLimit Qual
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	
Sample ID: LCS-77208 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range	Organics
Client ID: LCSS Batch ID: 77208 RunNo: 99380	_
Prep Date: 8/30/2023 Analysis Date: 8/31/2023 SeqNo: 3627545 Units: %Rec	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual
Surr: DNOP 5.9 5.000 119 69 147	
Sample ID: LCS-77213 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range	Organics
Client ID: LCSS Batch ID: 77213 RunNo: 99380	J
Prep Date: 8/30/2023 Analysis Date: 8/31/2023 SeqNo: 3627547 Units: %Rec	
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 Surr: DNOP 5.3 5.000 105 69 147	RPDLimit Qual
Surr: DNOP 5.3 5.000 105 69 147	
Surr: DNOP 5.3 5.000 105 69 147	
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range	
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range           Client ID: PBS         Batch ID: 77176         RunNo: 99380	
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range           Client ID: PBS         Batch ID: 77176         RunNo: 99380           Prep Date: 8/29/2023         Analysis Date: 8/31/2023         SeqNo: 3627552         Units: %Rec	Organics
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range           Client ID: PBS         Batch ID: 77176         RunNo: 99380           Prep Date: 8/29/2023         Analysis Date: 8/31/2023         SeqNo: 3627552         Units: %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD	POrganics  RPDLimit Qual
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range           Client ID: PBS         Batch ID: 77176         RunNo: 99380           Prep Date: 8/29/2023         Analysis Date: 8/31/2023         SeqNo: 3627552         Units: %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD           Surr: DNOP         13         10.00         126         69         147	POrganics  RPDLimit Qual
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range           Client ID: PBS         Batch ID: 77176         RunNo: 99380           Prep Date: 8/29/2023         Analysis Date: 8/31/2023         SeqNo: 3627552         Units: %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD           Surr: DNOP         13         10.00         126         69         147           Sample ID: MB-77208         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range	POrganics  RPDLimit Qual
Surr: DNOP         5.3         5.000         105         69         147           Sample ID: MB-77176         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range Client ID: PBS         Batch ID: 77176         RunNo: 99380           Prep Date: 8/29/2023         Analysis Date: 8/31/2023         SeqNo: 3627552         Units: %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD           Surr: DNOP         13         10.00         126         69         147           Sample ID: MB-77208         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range           Client ID: PBS         Batch ID: 77208         RunNo: 99380	POrganics  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 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

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#### Hall Environmental Analysis Laboratory, Inc.

2308F18 11-Sep-23

WO#:

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77213 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 77213 RunNo: 99380

Prep Date: 8/30/2023 Analysis Date: 8/31/2023 SeqNo: 3627557 Units: %Rec

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

Surr: DNOP 11 10.00 108 69 147

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RLReporting Limit Page 16 of 20

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Project: Laguna	a Salado 22 Fed 4 Pasture	
Sample ID: Ics-77179	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS	Batch ID: <b>77179</b> RunNo: <b>99366</b>	
Prep Date: 8/29/2023	Analysis Date: <b>8/31/2023</b> SeqNo: <b>3627634</b> Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Gasoline Range Organics (GRO)	23 5.0 25.00 0 93.6 70 130	
Surr: BFB	2000 1000 203 15 244	
Sample ID: Ics-77198	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS	Batch ID: <b>77198</b> RunNo: <b>99366</b>	
Prep Date: 8/30/2023	Analysis Date: 9/1/2023 SeqNo: 3627635 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Surr: BFB	1900 1000 193 15 244	_
Sample ID: mb-77198	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS	Batch ID: <b>77198</b> RunNo: <b>99366</b>	
Prep Date: 8/30/2023	Analysis Date: 9/1/2023 SeqNo: 3627636 Units: %Rec	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Surr: BFB	940 1000 93.9 15 244	
Sample ID: mb-77179	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS	Batch ID: <b>77179</b> RunNo: <b>99366</b>	
Prep Date: 8/29/2023	Analysis Date: 8/31/2023 SeqNo: 3627706 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	980 1000 98.3 15 244	
Sample ID: Ics-77164	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 77164 RunNo: 99374	
Prep Date: 8/29/2023	Analysis Date: 9/1/2023 SeqNo: 3628001 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Gasoline Range Organics (GRO)	21 5.0 25.00 0 84.8 70 130	
Surr: BFB	2000 1000 198 15 244	
Sample ID: mb-77164	SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS	Batch ID: <b>77164</b> RunNo: <b>99374</b>	
Prep Date: 8/29/2023	Analysis Date: 9/1/2023 SeqNo: 3628002 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	990 1000 98.6 15 244	

#### Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: Ics-77172 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 77172 RunNo: 99411

Prep Date: 8/29/2023 Analysis Date: 9/2/2023 SeqNo: 3628857 Units: %Rec

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

Surr: BFB 1900 1000 191 15 244

Sample ID: mb-77172 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 77172 RunNo: 99411

Prep Date: 8/29/2023 Analysis Date: 9/2/2023 SeqNo: 3628859 Units: %Rec

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

Surr: BFB 940 1000 93.5 15 244

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: %Rec

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

Surr: BFB 2200 1000 216 15 244

Sample ID: mb-77209 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 77209 RunNo: 99415

Prep Date: 8/30/2023 Analysis Date: 9/1/2023 SeqNo: 3629501 Units: %Rec

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

Surr: BFB 980 1000 98.1 15 244

#### Qualifiers:

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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: LCS-77179	SampType: <b>LCS</b>	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 77179	RunNo: 99366		
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627739	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Benzene	1.1 0.025 1.000	0 108 70	130	
Toluene	1.1 0.050 1.000	0 108 70	130	
Ethylbenzene	1.1 0.050 1.000	0 111 70	130	
Xylenes, Total	3.3 0.10 3.000	0 112 70	130	
Surr: 4-Bromofluorobenzene	1.1 1.000	110 39.1	146	
Sample ID: LCS-77198	SampType: <b>LCS</b>	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 77198	RunNo: 99366		
Prep Date: 8/30/2023	Analysis Date: 9/1/2023	SeqNo: <b>3627740</b>	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	1.1 1.000	106 39.1	146	
Sample ID: mb-77198	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 77198	RunNo: 99366		
Prep Date: 8/30/2023	Analysis Date: 9/1/2023	SeqNo: <b>3627741</b>	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	1.1 1.000	106 39.1	146	
Sample ID: mb-77179	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 77179	RunNo: 99366		
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627742</b>	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	1.1 1.000	107 39.1	146	
Sample ID: Ics-77164	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 77164	RunNo: 99374		

#### Qualifiers:

Prep Date:

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Value exceeds Maximum Contaminant Level.

8/29/2023

- 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

Analysis Date: 9/1/2023

PQL

0.025

0.050

0.050

0.10

SPK value

1.000

1.000

1.000

3.000

Result

0.91

0.90

0.92

2.8

B Analyte detected in the associated Method Blank

SeqNo: 3628033

LowLimit

70

70

70

70

%REC

90.7

90.3

92.2

92.2

Units: mg/Kg

130

130

130

HighLimit

%RPD

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

SPK Ref Val

0

0

0

0

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**RPDLimit** 

Qual

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2308F18

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: Ics-77164 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 77164 RunNo: 99374

Analysis Date: 9/1/2023 SeqNo: 3628033 Prep Date: 8/29/2023 Units: mg/Kg

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

Surr: 4-Bromofluorobenzene 0.94 1.000 94.3 39 1 146

Sample ID: mb-77164 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 77164 RunNo: 99374 Prep Date: 8/29/2023 Analysis Date: 9/1/2023 SeqNo: 3628034 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Benzene ND 0.025 ND 0.050 ND 0.050

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.90 1.000 90.5 39 1 146

Sample ID: LCS-77172 TestCode: EPA Method 8021B: Volatiles SampType: LCS

Client ID: LCSS Batch ID: 77172 RunNo: 99411

Prep Date: 8/29/2023 Analysis Date: 9/2/2023 SeqNo: 3628971 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.000 108 39.1 146

Sample ID: mb-77172 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: Batch ID: 77172 RunNo: 99411

Prep Date: Analysis Date: 9/2/2023 SeqNo: 3628973 8/29/2023 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POL I owl imit HighLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 105 39.1 146

Sample ID: Ics-77209 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 77209 RunNo: 99415

Prep Date: Analysis Date: 9/1/2023 SeqNo: 3629583 Units: %Rec 8/30/2023

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

Surr: 4-Bromofluorobenzene 0.91 1.000 39.1 90.9 146

Sample ID: mb-77209 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 77209 RunNo: 99415

Prep Date: 8/30/2023 Analysis Date: 9/1/2023 SeqNo: 3629584 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.000 90.6 39.1 146 0.91

#### 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 20 of 20



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: 4/22/2025 10:00:17 AM

Client Name:	Devon Energy	Work Order Number:	2308F18		RcptNo: 1	
Received By:	Tracy Casarrubias	8/29/2023 7:55:00 AM				
Completed By:	Tracy Casarrubias	8/29/2023 8:21:59 AM				
Reviewed By:	M 8-29-23					
0	<b>'</b>					
Chain of Cust	ody			_		
1. Is Chain of Cu	stody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the s	sample delivered?		Courier			
<u>Log In</u>						
3. Was an attemp	pt made to cool the sample	es?	Yes 🗹	No 📙	NA 📙	
4. Were all samp	les received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient samp	ole volume for indicated tes	st(s)?	Yes 🗹	No 🗌		
7. Are samples (e	except VOA and ONG) prop	perly preserved?	Yes 🗸	No 🗌		
8. Was preservat	ive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ple containers received bro	oken?	Yes 🗆	No 🗹	# of preserved	
	rk match bottle labels? ncies on chain of custody)		Yes 🗹	1	oottles checked for pH: (<2 or >12 up	less noted)
	orrectly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
	analyses were requested?	· ·	Yes 🗸	No 🗌		1 - 10-
14. Were all holding	ng times able to be met?		Yes 🗹	No 🗆 🗸	Checked by: 7~8	129/2
Special Handli	ing (if applicable)					
15. Was client not	tified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date:	A NAME OF POST OF PERSONS ASSESSED.			
By Who	m:	Via: [	_ eMail _	Phone  Fax	In Person	
Regardi	ng:					
Client In	nstructions: Mailing address	ss.phone number and Email	Fax are miss	ingon COCTMC	8/29/23	
16. Additional rer	marks:					
17. <u>Cooler Information</u> Cooler No		Seal Intact Seal No S	Seal Date	Signed By		
1		Yes Yogi	car bato	oigned by		

Chain-ot-Custody Record	l urn-Around Time:	
Client: Devin/Vertex	□ Standard   Rush 48 h	ANALYSIS I ABORATORY
		www hallenvironmental com
Mailing Address: On $f^{1}_{r}(e)$	Laguna Salado 22 Fed 4 Return	4901 Hawki
	Project #:	Tel. 505-345-3975
Phone #:	23E-01414	Anal
email or Fax#:	Project Manager:	†O
QA/QC Package:		S's S't' SMS
☐ Standard ☐ Level 4 (Full Validation)	Kent Stallings	) OS
:uo	r: SM	8082 4.1) 827 827
□ NELAC □ Other		OPI Solid So
□ EDD (Type)	# of Coolers:	od B10 B10 OV )
	Cooler Temp(including cr): 0. 1 - 0.1 - Ø (°C)	15D estideth y 83 y, 83 3r, 1
		H:80 81 Pa H:80 NHs b SPA 8 FF, E FO (V
Matrix Sample Name	Type and # Type 2308F18	4T 808 44 DA PC 508
8/25/2010:05 Soil BG23-01 0'	4 or you Ice 1001	>
1 3 923-01	200	
10:15   89 23-02 01	003	200 100 100 100 100 100 100 100 100 100
10:30   86, 23-02 3	h00	
10:01   BH23-01 0'	\$00	
10:50 BH23-01 2-	9,00	
12:30   BH23-02 01	£00	
12:45 BH33-02 2-	800	
12:40 B H 23-03-0	004	
12:45 B H23-03 2-	010	
13:45   18423-04 0'	110	
13:50	210	マ
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks: Dryort Will to Deallon
	Minns blacks	8844812:4718
	Received by: Via: County Date Time	
THE THE CAMERICAN	8/29/3	C. C. SMCCarts @ vertice. O. Par lot
If necessary camples submitted to Hall Flouironmental may be seek	contracted to after socredited laboratories This serves as notice of this	odt ao bot

ss. In serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 422/2013st 10:00-14/07/10 may persubco

### **ATTACHMENT 5**

Client Name: Devon Energy Production Company, LP

Site Name: Laguna Salado 22 Federal #004H; Laguna Salado 22 Federal #005H; Spud 16 State #010

Projects #: 23E-01414-01; 23E-01414-02; 22E-01927; 23E-0857

Lab Reports: 2304962, 2304A19; 2308F18, 2309072; 2307983; 2208H98, 2304663; 2307083, 2305C87

	Sample Fiel	d Screen aı	nd Laborat	atory Results - Depth to Groundwater <50 feet bgs										
	F	Field Screening			Petroleum Hydrocarbons									
		D Depth (ft)					Vol	atile	Extractable					Inorganic
Site	Sample ID		Depth (ft)	Sample Date	Volatile Organic  Compounds (PID)	Extractable Organic  Compounds (PetroFlag)	(Horide Concentration	Benzene	BTEX (Total)	Gasoline Range Corganics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Sport Oil Range (Sport Oil Range)	(mg/kg)	Total Petroleum Hydrocarbons (TPH)
		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
23E-01414-01 (Pad)	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
23E-01414-01 (Pad)	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 ND	ND ND	ND ND	ND ND	1,900 1,900
	<del>                                     </del>	8	April 21, 2023 August 25, 2023	-	58	<b>2,569</b>	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
23E-01414-01	BG23-01	2	August 25, 2023		83	2,273	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1,700
205 21111	2000	0	August 25, 2023	-	91	14	ND	ND	ND	ND	ND	ND	ND	ND
23E-01414-01	BG23-02	2	August 25, 2023	-	116	698	ND	ND	ND	ND	ND	ND	ND	970
23E-01414-01	BG23-03	0	August 25, 2023	-	202	28,598	ND	ND	ND	ND	ND	ND	ND	17,000
23E-01414-01	BG23-03	2	August 25, 2023	-	86	5,293	ND	ND	ND	ND	ND	ND	ND	4,900
23E-01414-02	BG23-01	0	July 19, 2023	0	64	1,590	ND	ND	ND	ND	ND	ND	ND	2,500
252 01414 02	5025 01	2	July 19, 2023	0	77	4,789	ND	ND	ND	ND	ND	ND	ND	6,100
23E-01414-02	BG23-02	0	July 19, 2023	0	76	28,378	ND	ND	ND	ND	ND	ND	ND	34,000
		2	July 19, 2023	0	66	5,545	ND	ND	ND	ND	ND	ND	ND	6,000
23E-01414-02	BG23-03	0	July 19, 2023	0	75 69	<b>656</b> 190	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	970 620
	BG22-01	0	July 19, 2023 August 29, 2022	-	-	25,522	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	22,000
		1	August 29, 2022		-	7,700	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5,900
22E-01927		2	August 29, 2022	-	-	4,792	ND	ND	ND	ND	ND	ND	ND	7,000
		4	August 29, 2022	-	-	8,637	ND	ND	ND	ND	ND	ND	ND	7,800
		0	August 29, 2022	-	-	7,692	ND	ND	ND	ND	ND	ND	ND	7,000
22E-01927	BG22-02	1	August 29, 2022	-	-	4,755	ND	ND	ND	ND	ND	ND	ND	3,800
		2	August 29, 2022	-	-	3,792	ND	ND	ND	ND	ND	ND	ND	2,800
22E-01927	BG22-03	0	August 29, 2022	-	-	12,782	ND	ND	ND	ND	ND	ND	ND	16,000
		1	August 29, 2022	-	-	10,865	ND	ND	ND	ND	ND	ND	ND	13,000
22E-01927	SS23-01	0	April 13, 2023	-	-	8,177	ND	ND	ND	ND	ND	ND	ND	5,200
22E-01927 22E-01927	SS23-02	0	April 13, 2023	-	-	28,728 28,724	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	7,600 31,000
22E-01927 22E-01927	SS23-03 SS23-04	0	April 13, 2023 April 13, 2023	-	-	28,728	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	140,000
22E-01927	SS23-04	0	April 13, 2023	_	_	26,608	ND	ND	ND	ND	ND	ND	ND	48,000
22E-01927	SS23-06	0	April 13, 2023	-	-	18,719	ND	ND	ND	ND	ND	ND	ND	15,000
22E-01927	SS23-07	0	April 13, 2023	-	-	3,982	ND	ND	ND	ND	ND	ND	ND	4,100
22E-01927	SS23-08	0	April 13, 2023	-	-	28,663	ND	ND	ND	ND	ND	ND	ND	61,000
22E-01927	SS23-09	0	April 13, 2023	-	-	28,694	ND	ND	ND	ND	ND	ND	ND	99,000
22E-01927	SS23-10	0	April 13, 2023	-	-	28,689	ND	ND	ND	ND	ND	ND	ND	110,000
22E-01927	SS23-11	0	April 13, 2023	-	-	20,210	ND	ND	ND	ND	ND	ND	ND	16,000
22E-01927	SS23-12	0	April 13, 2023	-	-	3,362	ND	ND	ND	ND	ND	ND	ND	2,600
22E-01927	SS23-13	0	April 13, 2023	-	-	28,707	ND	ND	ND	ND	ND	ND	ND ND	33,000
22E-01927 22E-01927	SS23-14 SS23-15	0	April 13, 2023	-	-	12,942 24,892	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	35,000 17,000
22E-01927 22E-01927	SS23-15 SS23-16	0	April 13, 2023	-	-	5,335	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	5,200
22E-01927 22E-01927	SS23-16 SS23-17	0	April 13, 2023 April 13, 2023	-	-	581	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	530
22E-01927	SS23-17	0	April 13, 2023	-	-	28,724	ND	ND	ND	ND	ND	ND	ND	43,000
22E-01927	SS23-19	0	April 13, 2023	-	-	27,064	ND	ND	ND	ND	ND	ND	ND	59,000
22E-01927	SS23-20	0	April 13, 2023	-	-	25,588	ND	ND	ND	ND	ND	ND	ND	33,000
22E-01927	SS23-21	0	April 13, 2023	-	-	2,700	ND	ND	ND	ND	ND	ND	ND	2,500
22E-01927	SS23-22	0	April 13, 2023	-	-	77	ND	ND	ND	ND	ND	ND	ND	72
22E-01927	SS23-23	0	April 13, 2023	-	-	22,011	ND	ND	ND	ND	ND	ND	ND	3,700
22E-01927	SS23-24	0	April 13, 2023	-	-	4,451	ND	ND	ND	ND	ND	ND	ND	42,000
22E-01927	SS23-25	0	April 13, 2023	-	-	424	ND	ND	ND	ND	ND	ND	ND	1,700
22E-01927	SS23-26	0	April 13, 2023	-	-	145	ND	ND	ND	ND	ND	ND	ND	ND



Client Name: Devon Energy Production Company, LP

Site Name: Laguna Salado 22 Federal #004H; Laguna Salado 22 Federal #005H; Spud 16 State #010

Projects #: 23E-01414-01; 23E-01414-02; 22E-01927; 23E-0857

Lab Reports: 2304962, 2304A19; 2308F18, 2309072; 2307983; 2208H98, 2304663; 2307083, 2305C87

	Table 4. Background Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs														
Sample Description			Field Screening			Petroleum Hydrocarbons							]		
							Volatile				Extractable		Inorganic		
Site	Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration	
				(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
23E-02857	BG23-01	0	May 23, 2023	0	34	16,550	ND	ND	ND	ND	ND	ND	ND	18,000	
23E-02857	BG23-02	0	May 23, 2023	0	80	13,936	ND	ND	ND	ND	ND	ND	ND	12,000	
		0	May 23, 2023	0	62	20,385	ND	ND	ND	ND	ND	ND	ND	17,000	
23E-02857	BG23-03	BG23-03	2	June 30, 2023	-	114	5,682	ND	ND	ND	ND	ND	ND	ND	4,900
251 02057			4	June 30, 2023	-	136	6,818	ND	ND	ND	ND	ND	ND	ND	5,900
		6	June 30, 2023	-	146	11,104	ND	ND	ND	ND	ND	ND	ND	8,800	
		0	June 30, 2023	-	123	13,558	ND	ND	ND	ND	ND	ND	ND	14,000	
23E-02857	BG23-04	2	June 30, 2023	-	140	5,890	ND	ND	ND	ND	ND	ND	ND	3,700	
		4	June 30, 2023	-	28	4,549	ND	ND	ND	ND	ND	ND	ND	3,200	

<sup>&</sup>quot;ND" Not Detected at the Reporting Limit

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria



<sup>&</sup>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

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 Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: <b>DGH</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>					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				Analyst: <b>DGH</b>	
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: <b>JJP</b>
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: <b>JJP</b>
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

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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 Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: <b>DGH</b>
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

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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: <b>DGH</b>
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

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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: <b>DGH</b>
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

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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 OR	GANICS				Analyst: <b>DGH</b>
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
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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

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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 Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: <b>DGH</b>
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: <b>JJP</b>
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

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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: <b>DGH</b>
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: <b>JJP</b>
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: <b>JJP</b>
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

e pH Not In Range ting Limit Page 8 of 16

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

# Analytical Report Lab Order 2304962

Date Reported: 5/3/2023

4/28/2023 4:40:02 PM 4/28/2023 4:40:02 PM

4/28/2023 11:43:03 PM

Analyst: NAI

#### 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

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 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 69-147 Surr: DNOP 69.3 %Rec 1 4/28/2023 1:04:56 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4/28/2023 4:40:02 PM 4.8 mg/Kg 1 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 4/28/2023 4:40:02 PM 1 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

ND

93.1

ND

0.097

70-130

60

mg/Kg

%Rec

ma/Ka

1

1

20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 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: <b>DGH</b>
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

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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 ORG	ANICS				Analyst: <b>DGH</b>
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: <b>JJP</b>
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

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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 ORG	SANICS				Analyst: <b>DGH</b>
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: <b>JJP</b>
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

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#### Hall Environmental Analysis Laboratory, Inc.

2304962 03-May-23

WO#:

**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: mq/Kq

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

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### 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

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 54 50.00 108 61.9 130 Surr: DNOP 5.9 5.000 117 147

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

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
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

1000

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: mq/Kq 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: Analysis Date: 4/28/2023 4/26/2023 SeqNo: 3491559 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) ND 5.0

104

37.7

212

1000

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

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2304962-001amsd SampType: MSD 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 SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result 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:

Surr: BFB

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

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### Hall Environmental Analysis Laboratory, Inc.

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

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4

Sample ID: LCS-74590	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Vola	iles			
Client ID: LCSS	Batcl	h ID: <b>74</b> !	590	F	RunNo: 9	6393					
Prep Date: 4/26/2023	Analysis D	Date: <b>4/</b>	28/2023	S	SeqNo: 3	491572	Units: mg/Kg				
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	Samp1	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles			
Client ID: PBS	Batcl	h ID: <b>74</b>	590	F	RunNo: 9	6393					
Prep Date: 4/26/2023	Analysis D	Date: 4/	28/2023	9	SeqNo: 3	491573	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	0.96		1.000		96.2	70	130				

Sample ID: 2304962-002ams	Sampl	уре: <b>М</b> S	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BH23-14 4'	Batc	h ID: <b>74</b> !	590	F	RunNo: 9	6393				
Prep Date: 4/26/2023	Analysis D	Date: <b>4/</b>	28/2023	S	SeqNo: 3	491576	Units: mg/Kg			
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	ype: <b>MS</b>	SD	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: BH23-14 4'	Batch	ID: <b>74</b>	590	F	RunNo: 90	6393					
Prep Date: 4/26/2023	Analysis D	ate: <b>4/</b> 2	28/2023	S	SeqNo: 34	491577	Units: mg/K	Inits: mg/Kg			
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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

### Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name:	Devon Ene	rgy	Work	Order Numb	per: 2304962		RcptNo	: 1
Received By:	Juan Roja	ıs	4/22/20	23 7:30:00 /	ΑM	Guaray		
Completed By:	Juan Roja	ıs	4/22/20	23 7:55:14 /	λM	Juan Engl	_	
Reviewed By:	=	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	sample deliv	ered?			Courier			
Log In								
3. Was an attemp	pt made to o	cool the samp	oles?		Yes 🗸	No 🗌	NA $\square$	
4. Were all sampl	les received	at a tempera	ature of >0° C	to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in p	roper contai	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 preservati	ive added to	bottles?			Yes	No 🗹	NA $\square$	
9. Received at lea	ast 1 vial with	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ple containe	ers received b	oroken?		Yes	No 🗹	# of preserved	
11.Does paperwor (Note discrepar			n)		Yes 🗹	No 🗌	bottles checked for pH:	r >12 unless noted)
2. Are matrices co		_	-		Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what	analyses we	ere requested	i?		Yes 🗸	No 🗌		1 / -
4. Were all holding	-		,		Yes 🗹	No 🗌	Checked by:	14/22/23
Special Handlii						_		
15. Was client noti	ified of all di	screpancies	with this order?	,	Yes 🗌	No 🗌	NA 🗹	
Person N	Notified:			Date	J			
By Whor	n: J			Via:	eMail	Phone Fax	☐ In Person	
Regardin	ng:							
Client Ins	structions: ]							
16. Additional rem	narks:							
Client mi	issing mailin	g address,ph	ione number a	nd email add	ress on COC.	JR 4/22/23		
17. Cooler Inform								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
1	0.3	Good	No	Morty			1	

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL							
Client: Dewn / vetex	Project Name:  Laguna Salado V2 Fed 4  Project #:	ANALYSIS LABORATORY							
	Project Name:	www.hallenvironmental.com							
Mailing Address: On Arle	Laguna Salado 22 Fed 4	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:	SO <sub>4</sub> (30)							
QA/QC Package:  □ Standard □ Level 4 (Full Validation)	Kent Stallings	S (80) O / MI PCB's SSIMS PO <sub>4</sub> ,							
Accreditation:   Az Compliance	Sampler: SM	1 TMB′ 8082 8082 8082 () NO₂,							
□ NELAC □ Other	On Ice: Yes No	3RO 3RO 0 or 1504							
□ EDD (Type)	# of Coolers:   Mov+7   Cooler Temp(including CF): U 4-0-1=0.3 (°C)	/ MTBE / 015D(GRC Pesticides/ Method 50 by 8310 or 8 Metals Br, NO <sub>3</sub> , (VOA) (Semi-VOA) Coliform (F							
		801.1							
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 730 4962	ETER / MTBE / TMI TPH:8015D(GRO / DI 8081 Pesticides/808/ 8081 Pesticides/808/ EDB (Method 504.1) PAHS by 8310 or 827 RCRA 8 Metals CB, F, Br, NO <sub>3</sub> , NO <sub>2</sub> 8260 (VOA) Total Coliform (Prese							
4/2012 8:52 Soil BH23-14 2"	402-ja/ FCB001								
1 9:10 BH23-14 4'	-002								
9:35 BH23-14 6°	7003	Control of the contro							
10:00 3423-14 8	7004								
10:26 BH23-14 9-	-005								
11:15 BH 23-05 2	-006								
11:36 BH 23-05 4'	-007	A State of the control of the contro							
12:19 13:19 13:05 6	-008								
14:36 BG22-01 0'	-009	10 (1) of the second of the se							
14:45 BG23-01 2-	-010	a time. I stall mode a section to							
14:55 BGR3-01 4'	-011								
15:00 8623-01 6'	-012	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Date: Time: Relinquished by:	100000000000000000000000000000000000000	Remarks: Direct bill: Devoun W/0 21134488							
Date: Time: Refinquished by:	Received by: Via! Date Time 4/2/23 7.130	c-c. Smccarty @yestex.ca pg lof!							

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: 4/22/2025 10:00:17 AM



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.: 2304A19

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/25/2023 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: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-01 8

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 8:35:00 AM

 Lab ID:
 2304A19-001
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/27/2023 4:34:17 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/27/2023 4:34:17 AM
Surr: DNOP	89.5	69-147	%Rec	1	4/27/2023 4:34:17 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/28/2023 4:25:00 AM
Surr: BFB	92.5	37.7-212	%Rec	1	4/28/2023 4:25:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/28/2023 4:25:00 AM
Toluene	ND	0.048	mg/Kg	1	4/28/2023 4:25:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/28/2023 4:25:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/28/2023 4:25:00 AM
Surr: 4-Bromofluorobenzene	84.7	70-130	%Rec	1	4/28/2023 4:25:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	990	60	mg/Kg	20	4/27/2023 4:32:29 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

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 0'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 8:28:00 AM

 Lab ID:
 2304A19-002
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/28/2023 2:58:42 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2023 2:58:42 AM
Surr: DNOP	93.6	69-147	%Rec	1	4/28/2023 2:58:42 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/1/2023 10:57:00 PM
Surr: BFB	88.0	37.7-212	%Rec	1	5/1/2023 10:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/1/2023 10:57:00 PM
Toluene	ND	0.050	mg/Kg	1	5/1/2023 10:57:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/1/2023 10:57:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/1/2023 10:57:00 PM
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	5/1/2023 10:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	5/1/2023 3:36:56 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 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
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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 2'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 9:34:00 AM

 Lab ID:
 2304A19-003
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/28/2023 3:09:33 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/28/2023 3:09:33 AM
Surr: DNOP	94.0	69-147	%Rec	1	4/28/2023 3:09:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/2/2023 12:02:00 AM
Surr: BFB	86.8	37.7-212	%Rec	1	5/2/2023 12:02:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	5/2/2023 12:02:00 AM
Toluene	ND	0.048	mg/Kg	1	5/2/2023 12:02:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/2/2023 12:02:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	5/2/2023 12:02:00 AM
Surr: 4-Bromofluorobenzene	85.7	70-130	%Rec	1	5/2/2023 12:02:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	660	60	mg/Kg	20	5/1/2023 4:38:40 PM

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

Qualifiers:

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

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 4'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 9:40:00 AM

 Lab ID:
 2304A19-004
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/28/2023 3:20:23 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/28/2023 3:20:23 AM
Surr: DNOP	96.9	69-147	%Rec	1	4/28/2023 3:20:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2023 1:07:00 AM
Surr: BFB	85.3	37.7-212	%Rec	1	5/2/2023 1:07:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	5/2/2023 1:07:00 AM
Toluene	ND	0.049	mg/Kg	1	5/2/2023 1:07:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2023 1:07:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/2/2023 1:07:00 AM
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	5/2/2023 1:07:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	2300	60	mg/Kg	20	5/1/2023 5:15:42 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

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Date Reported: 5/3/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 6'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 9:55:00 AM

 Lab ID:
 2304A19-005
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 4/28/2023 3:31:10 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/28/2023 3:31:10 AM 69-147 Surr: DNOP 99.6 %Rec 1 4/28/2023 3:31:10 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/2/2023 1:28:00 AM 4.7 mg/Kg 1 Surr: BFB 89.1 37.7-212 %Rec 1 5/2/2023 1:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 mg/Kg 5/2/2023 1:28:00 AM 1 Toluene ND 0.047 mg/Kg 1 5/2/2023 1:28:00 AM Ethylbenzene ND 0.047 mg/Kg 1 5/2/2023 1:28:00 AM Xylenes, Total ND 0.094 mg/Kg 1 5/2/2023 1:28:00 AM Surr: 4-Bromofluorobenzene 89.4 70-130 %Rec 1 5/2/2023 1:28:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 1900 60 5/1/2023 5:28:03 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

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 8'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 10:18:00 AM

 Lab ID:
 2304A19-006
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/28/2023 3:41:56 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2023 3:41:56 AM
Surr: DNOP	88.6	69-147	%Rec	1	4/28/2023 3:41:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2023 1:50:00 AM
Surr: BFB	88.6	37.7-212	%Rec	1	5/2/2023 1:50:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	5/2/2023 1:50:00 AM
Toluene	ND	0.049	mg/Kg	1	5/2/2023 1:50:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2023 1:50:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/2/2023 1:50:00 AM
Surr: 4-Bromofluorobenzene	87.0	70-130	%Rec	1	5/2/2023 1:50:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1900	59	mg/Kg	20	5/1/2023 5:40:23 PM

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

Qualifiers:

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

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Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-40 0'

 Project:
 Laguna Salado 22 Fed 4
 Collection Date: 4/21/2023 8:19:00 AM

 Lab ID:
 2304A19-007
 Matrix: SOIL
 Received Date: 4/25/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	10	9.9	mg/Kg	1	4/28/2023 3:52:41 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/28/2023 3:52:41 AM
Surr: DNOP	78.2	69-147	%Rec	1	4/28/2023 3:52:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2023 2:12:00 AM
Surr: BFB	84.6	37.7-212	%Rec	1	5/2/2023 2:12:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/2/2023 2:12:00 AM
Toluene	ND	0.049	mg/Kg	1	5/2/2023 2:12:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2023 2:12:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/2/2023 2:12:00 AM
Surr: 4-Bromofluorobenzene	85.7	70-130	%Rec	1	5/2/2023 2:12:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	110	60	mg/Kg	20	5/1/2023 6:17:25 PM

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

2304A19 03-May-23

WO#:

**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-74664 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74664 RunNo: 96419

Prep Date: 5/1/2023 Analysis Date: 5/1/2023 SeqNo: 3494404 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74664 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74664 RunNo: 96419

Prep Date: 5/1/2023 Analysis Date: 5/1/2023 SeqNo: 3494405 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.5 90 110

Sample ID: MB-74674 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **74674** RunNo: **96419** 

Prep Date: 5/1/2023 Analysis Date: 5/1/2023 SeqNo: 3494434 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74674 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74674 RunNo: 96419

Prep Date: 5/1/2023 Analysis Date: 5/1/2023 SeqNo: 3494435 Units: mg/Kg

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

Chloride 16 1.5 15.00 0 109 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

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### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2304A19** 

03-May-23

**Client:** Devon Energy

Sample ID: MB-74583

**Project:** Laguna Salado 22 Fed 4

Sample ID: LCS-74583	SampT	ype: <b>LC</b>	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	Batch ID: <b>74583</b> RunNo: <b>96315</b>								
Prep Date: 4/26/2023	Analysis D	ate: <b>4/</b> 2	26/2023	SeqNo: <b>3489050</b> Units: <b>mg/Kg</b>				ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.6	61.9	130			
Surr: DNOP	4.4		5.000		88.6	69	147			

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS	Batch	ID: <b>74</b>	583	R	6315						
Prep Date: 4/26/2023	Analysis D	lysis Date: 4/26/2023			SeqNo: <b>3489053</b> 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	9.3		10.00		92.8	69	147				

Sample ID: LCS-74617	LCS-74617 SampType: LCS					TestCode: EPA Method 8015M/D: Diesel Range Organics						de: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	n ID: <b>74</b> 0	<b>74617</b> RunNo: <b>96349</b>														
Prep Date: 4/27/2023	Analysis D	oate: 4/	28/2023	023 SeqNo: 3490871 Units: mg/Kg													
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	61.9	130										
Surr: DNOP	5.1		5.000		103	69	147										

Sample ID: <b>MB-74617</b>	SampT	уре: МЕ	BLK	Tes	PA Method	od 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch	ID: <b>74</b>	617	F	lunNo: 9	6381					
Prep Date: 4/27/2023	Analysis D	ate: 4/	28/2023	S	SeqNo: 3	491272	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									

Motor Oil Range Organics (MRO)	ND	50				
Surr: DNOP	7.2		10.00	71.6	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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2304A19** 

03-May-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4

Sample ID: Ics-74569 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 74569 RunNo: 96355

Prep Date: 4/26/2023 Analysis Date: 4/27/2023 SeqNo: 3490359 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 21 5.0 25.00 Λ 84.2 70 130 Surr: BFB 1900 1000 195 37.7 212

Sample ID: mb-74569 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **74569** RunNo: **96355** 

Prep Date: 4/26/2023 Analysis Date: 4/27/2023 SeqNo: 3490360 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

92.9

37.7

212

Sample ID: 2304a19-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: BG23-02 0' Batch ID: 74613 RunNo: 96448

930

Prep Date: 4/27/2023 Analysis Date: 5/1/2023 SeqNo: 3494716 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 18 5.0 24.98 O 71.9 70 130 Surr: BFB 1900 999.0 190 37.7 212

Sample ID: 2304a19-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BG23-02 0' Batch ID: 74613 RunNo: 96448

Prep Date: 4/27/2023 Analysis Date: 5/1/2023 SeqNo: 3494717 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 19 5.0 77.0 70 20 24.98 130 6.88 Surr: BFB 2000 999.0 195 37.7 212 0 0

Sample ID: mb-74613 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 74613 RunNo: 96448

Prep Date: 4/27/2023 Analysis Date: 5/1/2023 SeqNo: 3494775 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 ND Surr: BFB 860 1000 85.7 37.7 212

Sample ID: Ics-74613 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **LCSS** Batch ID: **74613** RunNo: **96448** 

Prep Date: 4/27/2023 Analysis Date: 5/1/2023 SeqNo: 3494776 Units: mg/Kg

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

#### Qualifiers:

Surr: BFB

- 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

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### Hall Environmental Analysis Laboratory, Inc.

03-May-23

2304A19

WO#:

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4

Sample ID: Ics-74613 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 74613 RunNo: 96448

Prep Date: 4/27/2023 Analysis Date: 5/1/2023 SeqNo: 3494776 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 20
 5.0
 25.00
 0
 82.0
 70
 130

 Surr: BFB
 1900
 1000
 188
 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2304A19** *03-May-23* 

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4

Sample ID: Ics-74569	SampT	Гуре: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	h ID: <b>74</b>	569	RunNo: <b>96355</b>						
Prep Date: 4/26/2023	Analysis D	Analysis Date: 4/27/2023		5	SeqNo: 3490404 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.6	80	120			
Toluene	0.88	0.050	1.000	0	87.5	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.0	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.0	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.5	70	130			
Sample ID: <b>mb-74569</b>	SampT	Гуре: МЕ	ype: MBLK TestCode: EPA Method 8021B: Volatiles							
Client ID: DRS	Ratch ID: 74560 RunNo: 96355									

Sample ID: <b>mb-/4569</b>	Sampi	inprype: MBLK restCode:			(Code: El	EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 74569		F	RunNo: 90	6355							
Prep Date: 4/26/2023	Analysis Date: 4/27/2023		8	SeqNo: <b>3490405</b> Units: <b>mg/</b>			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	0.86		1.000		85.8	70	130					

Sample ID: <b>mb-74613</b>	SampType: MBLK			Test	tCode: El					
Client ID: PBS	Batch	Batch ID: 74613 Ru		tunNo: 9	6448					
Prep Date: 4/27/2023	Analysis D	ate: <b>5/</b>	1/2023	S	SeqNo: 3	494774	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

Sample ID: 2304a19-003ams	SampT	уре: <b>МЅ</b>	<b>;</b>	Tes	tCode: El					
Client ID: <b>BG23-02 2'</b>	Batch	ID: <b>74</b> 6	613	RunNo: 96448						
Prep Date: 4/27/2023	Analysis D	ate: <b>5/</b> 2	2/2023	S	SeqNo: 3	494780	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9643	0	90.4	68.8	120			
Toluene	0.87	0.048	0.9643	0	90.2	73.6	124			
Ethylbenzene	0.85	0.048	0.9643	0	87.9	72.7	129			
Xylenes, Total	2.5	0.096	2.893	0	87.1	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9643		87.7	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
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2304A19** 

03-May-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4

Sample ID: 2304a19-003ams	sd SampT	уре: М	SD	Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: <b>BG23-02 2'</b>	Batch	n ID: <b>74</b> 0	613	F	RunNo: 96448						
Prep Date: 4/27/2023	Analysis D	oate: 5/	2/2023	\$	SeqNo: 3	494781	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.82	0.024	0.9634	0	85.4	68.8	120	5.78	20		
Toluene	0.85	0.048	0.9634	0	88.3	73.6	124	2.25	20		
Ethylbenzene	0.85	0.048	0.9634	0	87.8	72.7	129	0.232	20		
Xylenes, Total	2.5	0.096	2.890	0	87.2	75.7	126	0.0394	20		
Surr: 4-Bromofluorobenzene	0.88		0.9634		91.0	70	130	0	0		

Sample ID: Ics-74613	Samp	ype: <b>LC</b>	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	Batch ID: <b>74613</b> RunNo: <b>96448</b>								
Prep Date: 4/27/2023	Analysis [	Date: <b>5/</b>	1/2023	\$	SeqNo: 3	494814	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.87	0.050	1.000	0	87.1	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.4	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

### Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name:	Devon Ene	rgy	Work	Order Numbe	r: 2304A19		RcptNo	: 1
Received By:	Juan Roja	as	4/25/20	23 7:20:00 AN	Л	Humany		
Completed By:	Tracy Cas			23 8:49:06 AN				
Reviewed By:	-	4/25	_		•			
Chain of Cus	todv							
1. Is Chain of C		lete?			Yes 🗌	No 🗹	Not Present	
2. How was the	sample deliv	rered?			Courier			
Log In					_			
<ol><li>Was an atten</li></ol>	npt made to	cool the samp	oles?		Yes 🗸	No 🗌	na 🗌	
4. Were all sam	ples received	l at a tempera	ature of >0° C	to 6.0°C	Yes 🗸	No 🗌	na 🗆	
5. Sample(s) in	proper conta	iner(s)?			Yes 🗹	No 🗌		
6. Sufficient sam	nple volume f	or indicated t	est(s)?		Yes 🗹	No 🗌		
7. Are samples (	except VOA	and ONG) pr	operly preserve	ed?	Yes 🗹	No 🗌		
8. Was preserva	tive added to	bottles?			Yes 🗌	No 🗹	NA 🗌	
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗌	NA 🗹	
0. Were any sar	nple containe	ers received t	oroken?		Yes 🗌	No 🗹	# of preserved	
1. Does paperwo (Note discrepa			٨		Yes 🗹	No 🗆	bottles checked for pH:	r >12 unless noted
2. Are matrices		•			Yes 🗹	No 🗆	Adjusted?	- 12 011000
3. Is it clear wha	-		- · · · · · · · ·		Yes 🗸	No 🗌		104
4. Were all holdi	-		<b>)</b>		Yes 🗹	No 🗆	Checked by:	n41251
pecial Handl								
15. Was client no	otified of all d	iscrepancies	with this order	?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:			Date: \( \int \)				
By Who				Via:	eMail	Phone  Fax	☐ In Person	
Regard								
		Mailing addr	ess, phone nur	mber,and Ema	il missing on (	COC- TMC 4/25/2	23	
16. Additional re	marks:							
17. <u>Cooler Infor</u>		1 -	1 -	1.				
Cooler No	Temp ºC 4.7	Condition Good	Seal Intact Yes	Seal No Morty	Seal Date	Signed By		

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL							
Client: Dewn / Westex	Standard Rush 5 DW Project Name:	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com							
Mailing Address: $O_{\Lambda} + f_{\Gamma}$	Project Name:  Laguna Salado 21 Fed 4  Project#:	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107							
Phone #:	235-01414	Analysis Request							
email or Fax#:  QA/QC Package:  □ Standard  □ Level 4 (Full Validation)	Project Manager:  Kent Stallings	TMB's (8021) / DRO / MRO) 8082 PCB's 4.1) 8270SIMS NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> () resent/Absent)							
Accreditation:   Az Compliance  Description: Other  Description: Az Compliance  Description: Other  Description: Az Compliance	Sampler: SM On Ice: Yes □ No # of Coolers:   Marty	MTBE / TMB (5D(GRO / DR) (5D(GRO / DR) (50 / 1) (70 / 1)							
Date Time Matrix Sample Name	Cooler Temp(Including CF): 1-9-0.1=4.7 (°C)  Container	RIEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals (Q) F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)							
4/21/23 8:35 Suil BG23-01 8'	402 jar ice 001								
8:28 B623-02 0'	002								
9:34 8923-02 2	003								
9:40 BG23-02 4'	004								
9:55 8623-02 6'	005								
10:18   BG23-02 8' 8:19   BH23-40 0'	000								
Date: Time: Relinquished by:  1600 Stephmout		Remarks: Direct bill: Devon W/0 #21134488							
Date: Time: Réfinquished by:	Received by: Via: Date Time	c.c. smcrarty@vertex.ca pg-lof/							



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

FAX:

RE: Laguna Salado 22 Fed 4 Pasture OrderNo.: 2308F18

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/29/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:05:00 AM

 Lab ID:
 2308F18-001
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 8/30/2023 4:10:27 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/30/2023 4:10:27 AM Surr: DNOP 84.6 69-147 %Rec 1 8/30/2023 4:10:27 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 2:29:00 PM 5.0 mg/Kg 1 Surr: BFB 96.2 15-244 %Rec 1 9/1/2023 2:29:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 2:29:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 9/1/2023 2:29:00 PM Ethylbenzene ND 0.050 mg/Kg 1 9/1/2023 2:29:00 PM Xylenes, Total ND mg/Kg 1 9/1/2023 2:29:00 PM 0.099 Surr: 4-Bromofluorobenzene 91.7 39.1-146 %Rec 1 9/1/2023 2:29:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 8/30/2023 6:18:11 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

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

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 10:10:00 AM

**Lab ID:** 2308F18-002 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/30/2023 4:21:08 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2023 4:21:08 AM
Surr: DNOP	90.0	69-147	%Rec	1	8/30/2023 4:21:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2023 2:51:00 PM
Surr: BFB	99.6	15-244	%Rec	1	9/1/2023 2:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/1/2023 2:51:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2023 2:51:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2023 2:51:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/1/2023 2:51:00 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146	%Rec	1	9/1/2023 2:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	1700	60	mg/Kg	20	8/30/2023 6:30:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 0'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:15:00 AM

 Lab ID:
 2308F18-003
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/30/2023 4:31:47 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 4:31:47 AM Surr: DNOP 84.1 69-147 %Rec 1 8/30/2023 4:31:47 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 3:13:00 PM 4.8 mg/Kg 1 Surr: BFB 98.2 15-244 %Rec 1 9/1/2023 3:13:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 3:13:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/1/2023 3:13:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/1/2023 3:13:00 PM Xylenes, Total ND 0.097 mg/Kg 1 9/1/2023 3:13:00 PM Surr: 4-Bromofluorobenzene 92.7 39.1-146 %Rec 1 9/1/2023 3:13:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 8/30/2023 6:43:00 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 20

Date Reported: 9/11/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:30:00 AM

 Lab ID:
 2308F18-004
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/30/2023 4:42:27 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 4:42:27 AM Surr: DNOP 87.2 69-147 %Rec 1 8/30/2023 4:42:27 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 3:35:00 PM 4.8 mg/Kg 1 Surr: BFB 95.9 15-244 %Rec 1 9/1/2023 3:35:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 3:35:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/1/2023 3:35:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/1/2023 3:35:00 PM Xylenes, Total ND 0.096 mg/Kg 1 9/1/2023 3:35:00 PM Surr: 4-Bromofluorobenzene 91.8 39.1-146 %Rec 1 9/1/2023 3:35:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 8/30/2023 7:32:38 PM 970 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

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

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 10:45:00 AM

**Lab ID:** 2308F18-005 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/30/2023 4:53:10 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2023 4:53:10 AM
Surr: DNOP	90.6	69-147	%Rec	1	8/30/2023 4:53:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2023 3:56:00 PM
Surr: BFB	100	15-244	%Rec	1	9/1/2023 3:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 3:56:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2023 3:56:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2023 3:56:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2023 3:56:00 PM
Surr: 4-Bromofluorobenzene	93.0	39.1-146	%Rec	1	9/1/2023 3:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	35000	1500	mg/Kg	500	8/31/2023 1:49:21 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

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-01 2'

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 10:50:00 AM

**Lab ID:** 2308F18-006 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/30/2023 5:03:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/30/2023 5:03:50 AM
Surr: DNOP	79.6	69-147	%Rec	1	8/30/2023 5:03:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2023 4:40:00 PM
Surr: BFB	96.8	15-244	%Rec	1	9/1/2023 4:40:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	9/1/2023 4:40:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2023 4:40:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2023 4:40:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2023 4:40:00 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146	%Rec	1	9/1/2023 4:40:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4000	150	mg/Kg	50	8/31/2023 2:01:42 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

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 12:30:00 PM

 Lab ID:
 2308F18-007
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/30/2023 5:14:33 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/30/2023 5:14:33 AM
Surr: DNOP	77.5	69-147	%Rec	1	8/30/2023 5:14:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2023 5:02:00 PM
Surr: BFB	98.8	15-244	%Rec	1	9/1/2023 5:02:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	9/1/2023 5:02:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2023 5:02:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2023 5:02:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/1/2023 5:02:00 PM
Surr: 4-Bromofluorobenzene	92.0	39.1-146	%Rec	1	9/1/2023 5:02:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	18000	600	mg/Kg	200	8/31/2023 2:14:03 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

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 2'

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 12:45:00 PM

**Lab ID:** 2308F18-008 **Matrix:** SOIL **Received Date:** 8/29/2023 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/30/2023 5:25:23 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2023 5:25:23 AM
Surr: DNOP	75.6	69-147	%Rec	1	8/30/2023 5:25:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2023 5:24:00 PM
Surr: BFB	97.8	15-244	%Rec	1	9/1/2023 5:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2023 5:24:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2023 5:24:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2023 5:24:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2023 5:24:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146	%Rec	1	9/1/2023 5:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	7800	300	mg/Kg	100	8/31/2023 2:26:24 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

Not in Range Page 8 of 20

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 12:40:00 PM

 Lab ID:
 2308F18-009
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 8/30/2023 5:36:14 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:36:14 AM Surr: DNOP 80.6 69-147 %Rec 1 8/30/2023 5:36:14 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 5:46:00 PM 4.9 mg/Kg 1 Surr: BFB 101 15-244 %Rec 1 9/1/2023 5:46:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 5:46:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/1/2023 5:46:00 PM Ethylbenzene ND 0.049 mg/Kg 1 9/1/2023 5:46:00 PM Xylenes, Total ND 0.098 mg/Kg 1 9/1/2023 5:46:00 PM Surr: 4-Bromofluorobenzene 90.8 39.1-146 %Rec 1 9/1/2023 5:46:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 8/31/2023 2:38:44 PM 8200 300 100

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

QL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-03 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 12:45:00 PM

 Lab ID:
 2308F18-010
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 8/30/2023 5:47:05 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:47:05 AM Surr: DNOP 78.1 69-147 %Rec 1 8/30/2023 5:47:05 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 6:08:00 PM 4.7 mg/Kg 1 Surr: BFB 96.3 15-244 %Rec 1 9/1/2023 6:08:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 6:08:00 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/1/2023 6:08:00 PM Ethylbenzene ND 0.047 mg/Kg 1 9/1/2023 6:08:00 PM Xylenes, Total ND 0.093 mg/Kg 1 9/1/2023 6:08:00 PM Surr: 4-Bromofluorobenzene 90.6 39.1-146 %Rec 1 9/1/2023 6:08:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 8/31/2023 2:51:06 PM 3100 150 50

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

pie ph Not in Range Page 10 of 20

Ethylbenzene

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

# **Analytical Report**Lab Order **2308F18**

Date Reported: 9/11/2023

9/1/2023 6:29:00 PM

9/1/2023 6:29:00 PM

9/1/2023 6:29:00 PM

8/31/2023 5:23:56 PM

Analyst: SNS

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 1:45:00 PM

 Lab ID:
 2308F18-011
 Matrix: SOIL
 Received Date: 8/29/2023 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 8/30/2023 5:57:50 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/30/2023 5:57:50 AM Surr: DNOP 77.0 69-147 %Rec 1 8/30/2023 5:57:50 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/1/2023 6:29:00 PM 4.7 mg/Kg 1 Surr: BFB 96.9 15-244 %Rec 1 9/1/2023 6:29:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/1/2023 6:29:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/1/2023 6:29:00 PM

ND

ND

90.6

67000

0.047

0.094

3000

39.1-146

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

1000

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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2308F18-012

Lab ID:

# Analytical Report Lab Order 2308F18

Received Date: 8/29/2023 7:55:00 AM

Date Reported: 9/11/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-04 2'

Matrix: SOIL

**Project:** Laguna Salado 22 Fed 4 Pasture **Collection Date:** 8/25/2023 1:50:00 PM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 8/31/2023 2:23:27 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/31/2023 2:23:27 PM Surr: DNOP 100 69-147 %Rec 1 8/31/2023 2:23:27 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 9/1/2023 12:29:17 PM 4.9 mg/Kg 1 Surr: BFB 93.6 15-244 %Rec 1 9/1/2023 12:29:17 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 9/1/2023 12:29:17 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 9/1/2023 12:29:17 PM Ethylbenzene ND 0.049 mg/Kg 1 9/1/2023 12:29:17 PM Xylenes, Total ND 0.098 mg/Kg 1 9/1/2023 12:29:17 PM Surr: 4-Bromofluorobenzene 106 39.1-146 %Rec 1 9/1/2023 12:29:17 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 8/31/2023 3:15:47 PM 5600 300 100

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

Qualifiers:

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77199 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **77199** RunNo: **99351** 

Prep Date: 8/30/2023 Analysis Date: 8/30/2023 SeqNo: 3626420 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-77199 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77199 RunNo: 99351

Prep Date: 8/30/2023 Analysis Date: 8/30/2023 SeqNo: 3626421 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.0 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 2308F18

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: LCS-77167	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: LCSS	Batch ID: 77167		RunNo: 99274									
Prep Date: 8/29/2023	Analysis Date: 8/30/20	23	SeqNo: <b>3623887</b>	Units: mg/Kg								
Analyte	Result PQL SPI	K value SPK Ref Va	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	48 10	50.00 0	96.6 61.9	130								
Surr: DNOP	4.0	5.000	79.2 69	147								
Sample ID: MB-77167	SampType: MBLK	pType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batch ID: 77167		RunNo: 99274									
Prep Date: 8/29/2023	Analysis Date: 8/30/20	23	SeqNo: <b>3623890</b>	Units: mg/Kg								
Analyte	Result PQL SPI	K value SPK Ref Va	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range Organics (DRO)	ND 10											
Motor Oil Range Organics (MRO)	ND 50											
Surr: DNOP	10	10.00	101 69	147								
Sample ID: LCS-77177	SampType: <b>LCS</b>	Te	estCode: EPA Method	8015M/D: Diese	el Range	Organics						
Client ID: LCSS	Batch ID: 77177		RunNo: 99380									
Prep Date: 8/29/2023	Analysis Date: 8/31/20	23	SeqNo: <b>3627016</b>	Units: %Rec								
Analyta												
Analyte	Result PQL SPI	K value SPK Ref Va	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Surr: DNOP	Result PQL SPI 5.7	K value SPK Ref Va 5.000	%REC LowLimit 114 69	HighLimit 147	%RPD	RPDLimit	Qual					
		5.000		147			Qual					
Surr: DNOP	5.7	5.000 Te	114 69	147			Qual					
Surr: DNOP Sample ID: LCS-77185	5.7 SampType: LCS	5.000 Te	114 69 estCode: <b>EPA Method</b>	147			Qual					
Surr: DNOP  Sample ID: LCS-77185  Client ID: LCSS	5.7  SampType: LCS  Batch ID: 77185  Analysis Date: 8/31/20	5.000 Te	114 69 estCode: <b>EPA Method</b> RunNo: <b>99380</b> SeqNo: <b>3627017</b>	147  8015M/D: Diese  Units: mg/Kg			Qual Qual					

Sample ID: <b>MB-77177</b>	SampType: MBLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 77177	i	RunNo: 99380								
Prep Date: 8/29/2023	Analysis Date: 8/31/2	023	SeqNo: 3627018 Units: %Rec								
Analyte	Result PQL SF	PK value SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: DNOP	12	10.00	116 69	147							

5.000

Sample ID: <b>MB-77185</b>	SampT	уре: <b>МВ</b>	LK	Tes	PA Method	8015M/D: Die	sel Range	Organics				
Client ID: PBS	Batch ID: <b>77185</b> RunNo: <b>99380</b>											
Prep Date: 8/30/2023	Analysis D	ate: <b>8/</b> 3	31/2023	(	SeqNo: 30	627019	Units: mg/Kg					
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit										Qual		
Diesel Range Organics (DRO)	ND	10										

Diesel Range Organics (DRO)

6.6

#### Qualifiers:

Surr: DNOP

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

131

69

147

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Project: Laguna	Salado 22 Fed 4 Pasture											
Sample ID: MB-77185	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batch ID: 77185	RunNo: 99380										
Prep Date: 8/30/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627019</b> Units: <b>mg/Kg</b>										
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										
Motor Oil Range Organics (MRO)	ND 50	400 00 447										
Surr: DNOP	13 10.00	126 69 147										
Sample ID: LCS-77176	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	Batch ID: <b>77176</b>	RunNo: 99380										
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627544</b> Units: <b>%Rec</b>										
Analyte		<u> </u>										
Surr: DNOP	5.5 5.000	109 69 147										
Sample ID: LCS-77208	208 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Org											
Client ID: LCSS	Batch ID: <b>77208</b>	RunNo: 99380										
Prep Date: 8/30/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627545</b> Units: <b>%Rec</b>										
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										
Surr: DNOP	5.9 5.000	119 69 147										
Sample ID: LCS-77213	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	Batch ID: 77213	RunNo: 99380										
Prep Date: 8/30/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627547</b> Units: <b>%Rec</b>										
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual										
Analyte Surr: DNOP	Result PQL SPK value 5.3 5.000	3										
•		3										
Surr: DNOP	5.3 5.000	105 69 147										
Surr: DNOP  Sample ID: MB-77176	5.3 5.000 SampType: <b>MBLK</b>	105 69 147  TestCode: EPA Method 8015M/D: Diesel Range Organics										
Surr: DNOP  Sample ID: MB-77176  Client ID: PBS	5.3 5.000  SampType: <b>MBLK</b> Batch ID: <b>77176</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627552 Units: %Rec										
Surr: DNOP  Sample ID: MB-77176  Client ID: PBS  Prep Date: 8/29/2023	5.3 5.000  SampType: MBLK  Batch ID: 77176  Analysis Date: 8/31/2023	TestCode: EPA Method 8015M/D: Diesel Range Organics           RunNo: 99380         SeqNo: 3627552         Units: %Rec           SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual										
Surr: DNOP  Sample ID: MB-77176  Client ID: PBS  Prep Date: 8/29/2023  Analyte	5.3 5.000  SampType: MBLK  Batch ID: 77176  Analysis Date: 8/31/2023  Result PQL SPK value	TestCode: EPA Method 8015M/D: Diesel Range Organics           RunNo: 99380         SeqNo: 3627552         Units: %Rec           SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual										
Surr: DNOP  Sample ID: MB-77176  Client ID: PBS  Prep Date: 8/29/2023  Analyte  Surr: DNOP	5.3 5.000  SampType: MBLK  Batch ID: 77176  Analysis Date: 8/31/2023  Result PQL SPK value  13 10.00	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627552 Units: %Rec  SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 126 69 147										
Surr: DNOP  Sample ID: MB-77176  Client ID: PBS  Prep Date: 8/29/2023  Analyte  Surr: DNOP  Sample ID: MB-77208	5.3 5.000  SampType: MBLK Batch ID: 77176  Analysis Date: 8/31/2023  Result PQL SPK value 13 10.00  SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics         RunNo: 99380       SeqNo: 3627552       Units: %Rec         SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         126       69       147    TestCode: EPA Method 8015M/D: Diesel Range Organics										
Surr: DNOP  Sample ID: MB-77176 Client ID: PBS Prep Date: 8/29/2023 Analyte Surr: DNOP  Sample ID: MB-77208 Client ID: PBS	5.3 5.000  SampType: MBLK  Batch ID: 77176  Analysis Date: 8/31/2023  Result PQL SPK value  13 10.00  SampType: MBLK  Batch ID: 77208	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627552 Units: %Rec  SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 126 69 147  TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 99380 SeqNo: 3627556 Units: %Rec										

#### 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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** *11-Sep-23* 

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77213 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 77213 RunNo: 99380

Prep Date: 8/30/2023 Analysis Date: 8/31/2023 SeqNo: 3627557 Units: %Rec

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

Surr: DNOP 11 10.00 108 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID:	lcs-77179	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015D: Gasol	ine Range	1		
Client ID:	LCSS	Batch	ID: <b>77</b> 1	179	F	RunNo: 9	9366					
Prep Date:	8/29/2023	Analysis D	ate: <b>8/</b> 3	31/2023	5	SeqNo: 30	627634	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Surr: BFB	e Organics (GRO)	23 2000	5.0	25.00 1000	0	93.6 70 203 15		130 244				
Sample ID:	lcs-77198	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015D: Gasol	ine Range	ı		
Client ID:	LCSS	Batch	ID: <b>77</b> 1	198	F							
Prep Date:	8/30/2023	Analysis D	ate: 9/	1/2023	5	SeqNo: 30	627635	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		1900		1000		193	15	244				
Sample ID:	mb-77198	SampT	уре: МЕ	BLK	8015D: Gasol	ine Range	ı					
Client ID:	PBS	Batch	ID: <b>77</b> 1	198	F	RunNo: 9	9366					
Prep Date:	8/30/2023	Analysis D	ate: 9/	1/2023	S	SeqNo: 30	627636	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		940		1000		93.9	15	244				
Sample ID:	mb-77179	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Range	ı		
Client ID:	PBS	Batch	ID: <b>77</b> 1	179	F	RunNo: 9	9366					
Prep Date:	8/29/2023	Analysis D	ate: <b>8/</b> 3	31/2023	5	SeqNo: 30	627706	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
_	e Organics (GRO)	ND	5.0									
Surr: BFB		980		1000		98.3	15	244				
Sample ID:	lcs-77164	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015D: Gasol	ine Range			
Client ID:	LCSS	Batch	ID: <b>77</b> 1	164	F	RunNo: 9	9374					
Prep Date:	8/29/2023	Analysis D	ate: 9/	1/2023	SeqNo: 3628001 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	e Organics (GRO)	21	5.0	25.00	0	84.8	70	130				
Surr: BFB		2000		1000		198	15	244				

#### Qualifiers:

Client ID:

Prep Date:

Surr: BFB

Analyte

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

Sample ID: mb-77164

PBS

Gasoline Range Organics (GRO)

8/29/2023

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

SampType: MBLK

Batch ID: 77164

Analysis Date: 9/1/2023

PQL

5.0

Result

ND

990

B Analyte detected in the associated Method Blank

98.6

RunNo: 99374

SeqNo: 3628002

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

15

Units: mg/Kg

244

%RPD

HighLimit

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

SPK value SPK Ref Val %REC

1000

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**RPDLimit** 

Qual

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2308F18

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: Ics-77172 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 77172 RunNo: 99411

Prep Date: Analysis Date: 9/2/2023 SeqNo: 3628857 Units: %Rec 8/29/2023

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

Surr: BFB 1900 1000 191 15 244

Sample ID: mb-77172 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 77172 RunNo: 99411 Prep Date: 8/29/2023 Analysis Date: 9/2/2023 SeqNo: 3628859 Units: %Rec %REC **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD Qual

93.5

244

Surr: BFB 940 1000 15 Sample ID: Ics-77209 TestCode: EPA Method 8015D: Gasoline Range SampType: LCS

Client ID: LCSS Batch ID: 77209 RunNo: 99415

Prep Date: Analysis Date: 9/1/2023 SeqNo: 3629500 8/30/2023 Units: %Rec

Analyte Result POL SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual I owl imit HighLimit

Surr: BFB 2200 1000 216

Sample ID: mb-77209 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 77209 RunNo: 99415

Prep Date: Analysis Date: 9/1/2023 SeqNo: 3629501 8/30/2023 Units: %Rec

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

Surr: BFB 980 1000 98.1 15 244

#### 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: LCS-77179	SampType: LCS TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batch ID: 77179	RunNo: 99366										
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627739</b> Uni	its: mg/Kg									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hi	ighLimit %RPD RPDLimit Qual									
Benzene	1.1 0.025 1.000	0 108 70	130									
Toluene	1.1 0.050 1.000	0 108 70	130									
Ethylbenzene	1.1 0.050 1.000	0 111 70	130									
Xylenes, Total	3.3 0.10 3.000	0 112 70	130									
Surr: 4-Bromofluorobenzene	1.1 1.000	110 39.1	146									
Sample ID: LCS-77198 SampType: LCS TestCode: EPA Method 8021B: Volatiles												
Client ID: LCSS	Batch ID: 77198	RunNo: 99366										
Prep Date: 8/30/2023	Analysis Date: 9/1/2023	SeqNo: <b>3627740</b> Uni	its: %Rec									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hi	ighLimit %RPD RPDLimit Qual									
Surr: 4-Bromofluorobenzene	1.1 1.000	106 39.1	146									
Sample ID: mb-77198	SampType: MBLK	TestCode: EPA Method 8021	IB: Volatiles									
Client ID: PBS	Batch ID: 77198	RunNo: 99366										
Prep Date: 8/30/2023	Analysis Date: 9/1/2023	SeqNo: <b>3627741</b> Uni	its: %Rec									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hi	ighLimit %RPD RPDLimit Qual									
Surr: 4-Bromofluorobenzene	1.1 1.000	106 39.1	146									
Sample ID: mb-77179	SampType: MBLK	TestCode: EPA Method 8021	IB: Volatiles									
Client ID: PBS	Batch ID: 77179	RunNo: 99366										
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: <b>3627742</b> Uni	its: mg/Kg									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hi	ighLimit %RPD RPDLimit Qual									
Benzene	ND 0.025											

Sample ID: Ics-77164	SampT	ype: LC	s	Tes	tCode: <b>EF</b>	les				
Client ID: LCSS	Batcl	n ID: <b>771</b>	64	F	RunNo: 99	9374				
Prep Date: 8/29/2023	Analysis D	Date: <b>9/</b> 1	1/2023	5	SeqNo: 36	628033	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	90.7	70	130			
Toluene	0.90	0.050	1.000	0	90.3	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.2	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.2	70	130			

#### Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- 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

ND

ND

ND

1.1

0.050

0.050

0.10

1.000

B Analyte detected in the associated Method Blank

107

39.1

146

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

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#### Hall Environmental Analysis Laboratory, Inc.

0.94

WO#: **2308F18** 

11-Sep-23

**Client:** Devon Energy

Surr: 4-Bromofluorobenzene

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: Ics-77164 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 77164 RunNo: 99374

Prep Date: 8/29/2023 Analysis Date: 9/1/2023 SeqNo: 3628033 Units: mg/Kg

1.000

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

94.3

39 1

146

Sample ID: mb-77164 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 77164 RunNo: 99374 Prep Date: 8/29/2023 Analysis Date: 9/1/2023 SeqNo: 3628034 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Benzene ND 0.025 ND 0.050 Toluene

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.90 1.000 90.5 39.1 146

Sample ID: LCS-77172 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 77172 RunNo: 99411

Prep Date: 8/29/2023 Analysis Date: 9/2/2023 SeqNo: 3628971 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.1 1.000 108 39.1 146

Sample ID: mb-77172 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 77172 RunNo: 99411

Prep Date: **8/29/2023** Analysis Date: **9/2/2023** SeqNo: **3628973** Units: **%Rec** 

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

Surr: 4-Bromofluorobenzene 1.0 1.000 105 39.1 146

Sample ID: Ics-77209 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 77209 RunNo: 99415

Prep Date: 8/30/2023 Analysis Date: 9/1/2023 SeqNo: 3629583 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.91 1.000 90.9 39.1 146

Sample ID: mb-77209 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 77209 RunNo: 99415

Prep Date: 8/30/2023 Analysis Date: 9/1/2023 SeqNo: 3629584 Units: %Rec

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

 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 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 20 of 20

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: 4/22/2025 10:00:17 AM

Client Name: Devon Energy	Work Order	Number: 2308F18		RcptNo: 1	
Received By: Tracy Casarru	bias 8/29/2023 7:5	5:00 AM			
Completed By: Tracy Casarru	bias 8/29/2023 8:2	1:59 AM			
Reviewed By: M 8-29	-23				
Chain of Custody					
1. Is Chain of Custody complete?	•	Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered	1?	<u>Courier</u>			
<u>Log In</u>					
Was an attempt made to cool	the samples?	Yes 🗸	No 📙	NA 📙	
4. Were all samples received at a	temperature of >0° C to 6.0°	C Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in proper container(	s)?	Yes 🔽	No 🗌		
6. Sufficient sample volume for in	dicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bot	tles?	Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with he	adspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers r	eceived broken?	Yes 🗆	No 🗹	# of preserved	
		F	🗀	bottles checked	
<ol> <li>Does paperwork match bottle I (Note discrepancies on chain of</li> </ol>		Yes 🗸	No 🗀	for pH: (<2 or >12 ur	less noted)
2. Are matrices correctly identified		Yes 🗸	No 🗌	Adjusted?	,
3. Is it clear what analyses were i		Yes 🗸	No 🗌		1
14. Were all holding times able to (If no, notify customer for author)	be met?	Yes 🗸	No 🗆 🗸	Checked by: 7\-8	129/2
Special Handling (if applic	able)				
15. Was client notified of all discre	epancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:		Date:			
By Whom:		Via: eMail	] Phone [] Fax	☐ In Person	
Regarding:					
Client Instructions: Ma	iling address.phone number a	nd Email/Fax are mis	singon COCTM	IC 8/29/23	
16. Additional remarks:					

Good

Yes

Yogi

C	Chain-of-Custody Record				-Around	Time:									_			_				
Client:		F			Standard ect Name	ı <u>≠</u> e:	Rush	148hr				A	N	AL	Y		S L	A	30			AL
Mailing	Address	: On	file	1 6	laun	a Sul	ado	22 Feel 4 Pasture		49	01 H								ли М 87	109		
				Proje	ect #:		D-000	130,53				)5-34							-4107			
Phone	#:			23	BE-0	1414	1	TO THE STATE OF STATE			146			_	_	ysis	_		_			
email o	r Fax#:		2 11 11	1	ect Mana	-	1 111		5	0					SO4			E)	9	346	2-10/07	
QA/QC □ Star	Package: ndard		☐ Level 4 (Full Validation)	K	ent	Sta	llin	aS	's (8021)	O/MRO)	PCB's		PAHs by 8310 or 8270SIMS		PO <sub>4</sub> , S	7 W S		(Present/Absent)				
Accred	itation:	□ Az C	ompliance	Sam	pler:	Sm			TMB	/ DRO	082	<del>-</del>	827(	10.11.22.2	NO <sub>2</sub> ,			eser				100 3
□ NEL		□ Othe	er	On lo		□ Yes		□ No yaqı	_	RO,	8/se	504	or (	<u>s</u>			OA)			4		
	(Type) _				of Coolers:  Cooler Temp(Including CF): 0.			-0.1=Ø (°C)	MTBE	D(G	licid	hod	3310	/leta	NO <sub>3</sub> ,	8	n-i	orn.				
				Cook	er remp	(including Ci	0.0.1	0.3=0 (0)		015	Pesi	Met	by 8	181	Br,	8	Ser.	Colif				
Date	Time	Matrix	Sample Name	Conta	ainer and#	Preserv Type		HEAL No. 2308F18	E E	TPH:8015D(GRO /	8081 Pesticides/8082	EDB (Method 504.1)	PAHs	RCRA 8 Metals	, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform				
8/25/23	10:05	Soil	BG23-01 0'	4,	2 jar	Ic		001	V	V					V			19-1				
	10:10		BG23-01 2		1	9 A. 27 A. 3		002		$\prod$			0.5	- 14		. Hey				22.3	e light	
	10:15		BG 23-02 0'			100	le n	003					Autor William	prove i		4.00a		er Latty Howard	124 c	100 Projet 1 PRO 20	E i	
	10:30		BG 23'02 2'	15				004								171111		WAT.		em di per	in the	+ /
	10:45		BH23-01 0'		- 11		111 7	005				- 7	1.				61 22	raitvi			1001	
	10:20		BH 23-01 2-				78.4 E	000					111,1	Sin en			Lipsch.		P S A			Fa
	12:30		BH23-02 0-				1	007											WHI()	7,44	Heix	
	12:45	1. 1	BH23-02 2-			i se va		008					10 1	n li e		134				42 0	Grand	
	12:40		B H 23-03-0'				em <sup>a</sup> rnes	009						lv i	2	42 1		inglish.		1, 1		
	12:45		BH23-03 2-				halifu. Faran	010								P.	ettiney.	-91	77.4	No see 20	A 1111	
	13:45		BH23-04 0'		7		in in Fill I Nobel I	011						4/1			A Accid	10	# 3/A		el 34 6101	
V	13:20		BH 23-04 2-	\	<u> </u>			012	V	V		16.70	100		4	40,71	75-200	A(B)1 (S)	artis	es anti- tra an es	1 tj. (1) (1) (1)	
Date:			h M clast		m		)	Pate Time Bluks 045	Rem	arks	: ] W	7770	ect *:	bi	11	148	Der 8	JUA				
Date:	Pate: Time: Refinquished by:  1613 190 (Muum)				ved by:	Via: Co	urir	Date Time 7:57	C. C	ر ا ا	<87 Mc	· elli coc	195.	@1	vert	60 148 ex.	Co		f	g	106	(
Released	ased to Imaging: submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice						es. This serves as notice of this	possil	oility.	Any su	b-cont	racted	d data	will be	clearly	y nota	ted on	the an	alytical	report.		



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

OrderNo.: 2309072

September 12, 2023

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

FAX:

RE: Laguna Salado 22 Fed 4 Pasture

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/2/2023 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: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 0'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:35:00 AM

 Lab ID:
 2309072-001
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.1 mg/Kg 1 9/6/2023 4:28:14 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 4:28:14 PM Surr: DNOP 96.6 69-147 %Rec 1 9/6/2023 4:28:14 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/6/2023 11:52:00 PM 4.8 mg/Kg 1 Surr: BFB 99.4 15-244 %Rec 1 9/6/2023 11:52:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/6/2023 11:52:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/6/2023 11:52:00 PM Ethylbenzene ND 0.048 mg/Kg 1 9/6/2023 11:52:00 PM Xylenes, Total ND 0.096 mg/Kg 1 9/6/2023 11:52:00 PM Surr: 4-Bromofluorobenzene 89.4 39.1-146 %Rec 1 9/6/2023 11:52:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 9/7/2023 10:03:19 AM 17000 1500 500

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 10

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/25/2023 10:40:00 AM

 Lab ID:
 2309072-002
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/6/2023 4:51:58 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/6/2023 4:51:58 PM
Surr: DNOP	91.9	69-147	%Rec	1	9/6/2023 4:51:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/7/2023 12:57:00 AM
Surr: BFB	98.1	15-244	%Rec	1	9/7/2023 12:57:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	9/7/2023 12:57:00 AM
Toluene	ND	0.050	mg/Kg	1	9/7/2023 12:57:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	9/7/2023 12:57:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	9/7/2023 12:57:00 AM
Surr: 4-Bromofluorobenzene	89.0	39.1-146	%Rec	1	9/7/2023 12:57:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4900	300	mg/Kg	100	9/7/2023 10:15:40 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 2 of 10

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:10:00 AM

 Lab ID:
 2309072-003
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 9/6/2023 5:15:49 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 9/6/2023 5:15:49 PM Surr: DNOP 91.6 69-147 %Rec 1 9/6/2023 5:15:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 2:02:00 AM 4.8 mg/Kg 1 Surr: BFB 96.8 15-244 %Rec 1 9/7/2023 2:02:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 2:02:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/7/2023 2:02:00 AM Ethylbenzene ND 0.048 mg/Kg 1 9/7/2023 2:02:00 AM Xylenes, Total ND 0.095 mg/Kg 1 9/7/2023 2:02:00 AM Surr: 4-Bromofluorobenzene 89.6 39.1-146 %Rec 1 9/7/2023 2:02:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 9/7/2023 10:28:01 AM 9400 600 200

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

e pH Not In Range Page 3 of 10

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:15:00 AM

 Lab ID:
 2309072-004
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/6/2023 5:39:41 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/6/2023 5:39:41 PM
Surr: DNOP	95.5	69-147	%Rec	1	9/6/2023 5:39:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/7/2023 2:24:00 AM
Surr: BFB	104	15-244	%Rec	1	9/7/2023 2:24:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	9/7/2023 2:24:00 AM
Toluene	ND	0.047	mg/Kg	1	9/7/2023 2:24:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/7/2023 2:24:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/7/2023 2:24:00 AM
Surr: 4-Bromofluorobenzene	90.1	39.1-146	%Rec	1	9/7/2023 2:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	9800	300	mg/Kg	100	9/7/2023 10:40:23 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 4 of 10

Date Reported: 9/12/2023

### Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:20:00 AM

 Lab ID:
 2309072-005
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 9/6/2023 6:03:48 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 9/6/2023 6:03:48 PM Surr: DNOP 90.9 69-147 %Rec 1 9/6/2023 6:03:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 9/7/2023 2:46:00 AM 4.8 mg/Kg 1 Surr: BFB 101 15-244 %Rec 1 9/7/2023 2:46:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 9/7/2023 2:46:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 9/7/2023 2:46:00 AM Ethylbenzene ND 0.048 mg/Kg 1 9/7/2023 2:46:00 AM Xylenes, Total ND 0.096 mg/Kg 1 9/7/2023 2:46:00 AM Surr: 4-Bromofluorobenzene 91.6 39.1-146 %Rec 1 9/7/2023 2:46:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 9/7/2023 10:52:44 AM 8100 600 200

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 10

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-06 2'

 Project:
 Laguna Salado 22 Fed 4 Pasture
 Collection Date: 8/31/2023 9:25:00 AM

 Lab ID:
 2309072-006
 Matrix: SOIL
 Received Date: 9/2/2023 7:45:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/6/2023 6:27:56 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/6/2023 6:27:56 PM
Surr: DNOP	84.5	69-147	%Rec	1	9/6/2023 6:27:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/7/2023 3:08:00 AM
Surr: BFB	99.8	15-244	%Rec	1	9/7/2023 3:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	9/7/2023 3:08:00 AM
Toluene	ND	0.047	mg/Kg	1	9/7/2023 3:08:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/7/2023 3:08:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	9/7/2023 3:08:00 AM
Surr: 4-Bromofluorobenzene	92.6	39.1-146	%Rec	1	9/7/2023 3:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4600	300	mg/Kg	100	9/7/2023 11:05:05 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

enorting Limit Page 6 of 10

### Hall Environmental Analysis Laboratory, Inc.

2309072

WO#:

12-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77340 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **77340** RunNo: **99513** 

Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3633388 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-77340 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77340 RunNo: 99513

Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3633389 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 7 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2309072** 

12-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: MB-77317 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 77317 RunNo: 99483 Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3632800 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.1 10.00 90.7 69 147

Sample ID: LCS-77317 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 77317 RunNo: 99483 Prep Date: 9/6/2023 Analysis Date: 9/6/2023 SeqNo: 3632801 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 130

Diesel Range Organics (DRO) 54 10 50.00 0 108 61.9 130 Surr: DNOP 4.3 5.000 85.5 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
- 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 10

### Hall Environmental Analysis Laboratory, Inc.

SampType: MS

2309072

WO#:

12-Sep-23

**Client:** Devon Energy

Sample ID: 2309072-001ams

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: mb-77310 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 77310 RunNo: 99469 Prep Date: 9/5/2023 Analysis Date: 9/6/2023 SeqNo: 3632342 Units: mq/Kq SPK Ref Val %RPD **RPDLimit** Analyte Result PQL SPK value %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 107 15 244

Client ID: BG23-03 0' Batch ID: 77310 RunNo: 99469 Analysis Date: 9/7/2023 Prep Date: 9/5/2023 SeqNo: 3632344 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.8 24.18 104 70 Surr: BFB 2300 967 1 234 15 244

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2309072-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BG23-03 0' Batch ID: 77310 RunNo: 99469 Prep Date: 9/5/2023 Analysis Date: 9/7/2023 SeqNo: 3632345 Units: mg/Kg %RPD PQL SPK value SPK Ref Val %REC **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) 23 4.8 24.15 95.5 70 130 8.90 20 Surr: BFB 221 2100 966.2 15 244 0 0

Sample ID: LCS-77310 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 77310 RunNo: 99469 Prep Date: 9/5/2023 Analysis Date: 9/6/2023 SeqNo: 3632755 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 25.00 92.0 70 130 5.0 Surr: BFB 2100 1000 213 15 244

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2309072** 

12-Sep-23

**Client:** Devon Energy

**Project:** Laguna Salado 22 Fed 4 Pasture

Sample ID: Ics-77310	Samp	Гуре: <b>LC</b> :	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batcl	h ID: 773	310	F	RunNo: 99	9469				
Prep Date: 9/5/2023	Analysis [	Date: 9/6	6/2023	9	SeqNo: 36	632741	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.5	70	130			
Toluene	0.89	0.050	1.000	0	89.4	70	130			
Ethylbenzene	0.91	0.050	1.000	0	90.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.6	70	130			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	39.1	146			

Sample ID: mb-77310	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: <b>773</b>	310	F	RunNo: 99	9469				
Prep Date: 9/5/2023	Analysis D	Date: 9/0	6/2023	5	SeqNo: 36	632742	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	39.1	146			

Sample ID: 2309072-002ams	s Samp	Type: MS	3	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID: <b>BG23-03 2'</b>	Bato	h ID: 77	310	F	RunNo: 9	9469				
Prep Date: 9/5/2023	Analysis I	Date: <b>9/</b>	7/2023	5	SeqNo: 30	632745	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9940	0	91.7	70	130			
Toluene	0.92	0.050	0.9940	0	92.7	70	130			
Ethylbenzene	0.94	0.050	0.9940	0	94.6	70	130			
Xylenes, Total	2.8	0.099	2.982	0	94.5	70	130			
Surr: 4-Bromofluorobenzene	0.94		0.9940		95.0	39.1	146			

Sample ID: 2309072-002amsd	SampT	ype: MS	: MSD TestCode: EPA Method 8021B: Volatiles							
Client ID: <b>BG23-03 2'</b>	Batch	n ID: <b>773</b>	310	F	RunNo: 99	9469				
Prep Date: 9/5/2023	Analysis D	Date: 9/7	7/2023	5	SeqNo: 36	32746	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9911	0	89.0	70	130	3.36	20	
Toluene	0.90	0.050	0.9911	0	90.5	70	130	2.66	20	
Ethylbenzene	0.92	0.050	0.9911	0	92.6	70	130	2.43	20	
Xylenes, Total	2.8	0.099	2.973	0	92.6	70	130	2.38	20	
Surr: 4-Bromofluorobenzene	0.90		0.9911		90.5	39.1	146	0	0	

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name: Devon Energy	Work Order No	umber: 2309072		RcptNo: 1	
Received By: Tracy Casarrul	oias 9/2/2023 7:45:00	O AM			
Completed By: Tracy Casarrul	oias 9/2/2023 7:57:20	O AM			
Reviewed By: 1 1 9/5		•	-		
Chain of Custody				5	
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?	•	Courier			
Log In		. [a]	N	NA 🗀	
Was an attempt made to cool the state of the state o	ne samples?	Yes 🗹	No 📙	NA 📙	
4. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🗸	No 🗌	na 🗆	
5. Sample(s) in proper container(s	)?	Yes 🗸	No 🗆		
6. Sufficient sample volume for ind	icated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and 0	ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottl	es?	Yes	No 🔽	NA 🗆	
9. Received at least 1 vial with hea	dspace <1/4" for AQ VOA?	Yes	No 🗆	NA 🗹	7
10. Were any sample containers re	ceived broken?	Yes	No 🔽	# of preserved bottles checked	
11. Does paperwork match bottle la (Note discrepancies on chain of		Yes 🗹	No 🗌	for pH: (<2 or >12 u	ınless noted)
12. Are matrices correctly identified	on Chain of Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were re	quested?	Yes 🗹	No 🗌		
14. Were all holding times able to b		Yes 🗹	No 🗆	Checked by: me	9/2/23
(If no, notify customer for author	ization.)		and the second		
Special Handling (if applica	<u>ble)</u>				
15. Was client notified of all discrep	pancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Da	ate:			
By Whom:	Vi	ia: eMail P	hone 🗌 Fax	In Person	
Regarding:				And the second s	
Client Instructions: Mail	ng address.phone number and	Email/Fax are missing	on COC- TM	C 9/2/23	
16. Additional remarks:					
17. Cooler Information					
	ondition Seal Intact Seal N	o Seal Date	Signed By		
1 0.6 God	od Yes Yogi				

Chain-of-C	Clex	Turn-Around  Standard  Project Name	Rusi	d4 Pasture	HALL ENVIRONME ANALYSIS LABORA www.hallenvironmental.com										
Mailing Address:	file	Laguna S	alado22 Fe	d4 Pasture	4901 Hawkins NE - Albuquerque, NM 87109					)					
Phone #:		** Tel. 505-345-3975 Fax 505-34  **C3E-01414 Analysis Reque							107						
email or Fax#:		Project Mana				6				SO <sub>4</sub>					and that
QA/QC Package: ☐ Standard	□ Level 4 (Full Validation)	Kent St	allings	end to a	's (8021)	(O / MRO)	PCB's	SMISO		PO <sub>4</sub> ,			Coliform (Present/Absent)		HATE A
☐ NELAC ☐ Oth	Compliance er	Sampler: Son Ice:	Y Yes	□ No yaqi	/ TMB's	30 / DRO	8081 Pesticides/8082	EDB (Method 504.1) PAHs by 8310 or 8270SIMS	S	3, NO <sub>2</sub> ,		(A)	(Preser		
□ EDD (Type)		# of Coolers: Cooler Temp		(°C) 0.6 (°C)	MTBE	TPH:8015D(GRO	esticide	EDB (Method 504.1) PAHs by 8310 or 82	8 Metal	3r, NO	(AO)	Semi-V(	oliform		
Date Time Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2309072	A A	TPH:80	8081 P	EDB (N	RCRA 8 Metals	♠F, Br, NO₃,	8260 (VOA)	8270 (Semi-VOA)	Total C		
3/25/23 10:35 Soil	BG23-03 6'	Yorjar	Ice	001	V	$\checkmark$				<b>V</b>			at (eq.) Im		
8/25/310:40	BG23-03 2'	113		002	1	1		OH HA	n nervy r		W (**)	re li	de di	17791	050 ± 6==
831/23 9:10	BH23-05 0'			003		П		111	1 1 1		2.5	770	a beign t	mil i i i	h ne
831/23 9:15	BH23-05 2		1000000	004	$\prod$	П			in a	11	n He	at more	147 1 64	00 than	energy.
221/23 9 20	BH23-060'	lis to place		005	$\prod$	П			14		- TO				1000
321/29:25	BH 23-06 21	V	1	00%	V	V		7366	1000-100	1	F(r) 14	School 1	a too Traver	n. Ipsita	
	1 1			Michigan Company of Michigan Company						and the			- 3 (81)		
				NOT THE CONTRACT OF THE CONTRA				19 000	ar pilpon di berenda	Aleman Aleman	W.		terre d		
	34 4			Angelon Company							# H H	Production of the second		W Target	
Date: Time: Relinqui Date: Time: Relinqui Date: Time: Relinqui Time: Relinqui	pumcCaf	Received by:	Via:	Date Time    1   123   980     Date Time     9   12121   7:45		narks		irec N/a ncco	#:	211 211	10 34 51ex	1788 1788	)euo }	^	AND

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



July 31, 2023

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

TEL: (505) 350-1336

FAX:

RE: Laguna Salado Fed 4 OrderNo.: 2307983

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/21/2023 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: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG23-01 0.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 10:00:00 AM

 Lab ID:
 2307983-001
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/23/2023 12:23:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2023 12:23:57 PM
Surr: DNOP	105	69-147	%Rec	1	7/23/2023 12:23:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/24/2023 9:38:52 PM
Surr: BFB	95.5	15-244	%Rec	1	7/24/2023 9:38:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/24/2023 9:38:52 PM
Toluene	ND	0.048	mg/Kg	1	7/24/2023 9:38:52 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/24/2023 9:38:52 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/24/2023 9:38:52 PM
Surr: 4-Bromofluorobenzene	119	39.1-146	%Rec	1	7/24/2023 9:38:52 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	2500	150	mg/Kg	50	7/26/2023 9:53:56 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-01 2.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 10:10:00 AM

 Lab ID:
 2307983-002
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/23/2023 12:48:23 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2023 12:48:23 PM
Surr: DNOP	88.2	69-147	%Rec	1	7/23/2023 12:48:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2023 10:49:22 PM
Surr: BFB	92.6	15-244	%Rec	1	7/24/2023 10:49:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	7/24/2023 10:49:22 PM
Toluene	ND	0.050	mg/Kg	1	7/24/2023 10:49:22 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2023 10:49:22 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2023 10:49:22 PM
Surr: 4-Bromofluorobenzene	116	39.1-146	%Rec	1	7/24/2023 10:49:22 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	6100	300	mg/Kg	100	7/26/2023 10:06:21 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 0.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 10:20:00 AM

 Lab ID:
 2307983-003
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/23/2023 1:12:51 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/23/2023 1:12:51 PM
Surr: DNOP	91.2	69-147	%Rec	1	7/23/2023 1:12:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2023 11:59:42 PM
Surr: BFB	92.6	15-244	%Rec	1	7/24/2023 11:59:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	7/24/2023 11:59:42 PM
Toluene	ND	0.050	mg/Kg	1	7/24/2023 11:59:42 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2023 11:59:42 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/24/2023 11:59:42 PM
Surr: 4-Bromofluorobenzene	117	39.1-146	%Rec	1	7/24/2023 11:59:42 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	34000	1500	mg/Kg	500	7/26/2023 10:18:46 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-02 2.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 10:30:00 AM

 Lab ID:
 2307983-004
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/23/2023 1:37:25 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/23/2023 1:37:25 PM
Surr: DNOP	89.4	69-147	%Rec	1	7/23/2023 1:37:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2023 12:23:08 AM
Surr: BFB	94.8	15-244	%Rec	1	7/25/2023 12:23:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.024	mg/Kg	1	7/25/2023 12:23:08 AM
Toluene	ND	0.049	mg/Kg	1	7/25/2023 12:23:08 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2023 12:23:08 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/25/2023 12:23:08 AM
Surr: 4-Bromofluorobenzene	120	39.1-146	%Rec	1	7/25/2023 12:23:08 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	6000	300	mg/Kg	100	7/26/2023 10:31:10 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 0.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 10:40:00 AM

 Lab ID:
 2307983-005
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/23/2023 2:01:58 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2023 2:01:58 PM
Surr: DNOP	79.0	69-147	%Rec	1	7/23/2023 2:01:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/25/2023 12:46:30 AM
Surr: BFB	93.6	15-244	%Rec	1	7/25/2023 12:46:30 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/25/2023 12:46:30 AM
Toluene	ND	0.048	mg/Kg	1	7/25/2023 12:46:30 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/25/2023 12:46:30 AM
Xylenes, Total	ND	0.096	mg/Kg	1	7/25/2023 12:46:30 AM
Surr: 4-Bromofluorobenzene	118	39.1-146	%Rec	1	7/25/2023 12:46:30 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	970	60	mg/Kg	20	7/25/2023 9:07:50 PM

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

Qualifiers:

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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 2.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 10:50:00 AM

 Lab ID:
 2307983-006
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/23/2023 2:26:32 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/23/2023 2:26:32 PM
Surr: DNOP	80.9	69-147	%Rec	1	7/23/2023 2:26:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/25/2023 1:10:05 AM
Surr: BFB	94.2	15-244	%Rec	1	7/25/2023 1:10:05 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: <b>JJP</b>
Benzene	ND	0.025	mg/Kg	1	7/25/2023 1:10:05 AM
Toluene	ND	0.050	mg/Kg	1	7/25/2023 1:10:05 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/25/2023 1:10:05 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/25/2023 1:10:05 AM
Surr: 4-Bromofluorobenzene	119	39.1-146	%Rec	1	7/25/2023 1:10:05 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	620	61	mg/Kg	20	7/25/2023 9:20:15 PM

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

Qualifiers:

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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-01 0.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 11:00:00 AM

 Lab ID:
 2307983-007
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 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	9.7	mg/Kg	1	7/23/2023 2:51:05 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/23/2023 2:51:05 PM
Surr: DNOP	92.1	69-147	%Rec	1	7/23/2023 2:51:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/25/2023 1:33:29 AM
Surr: BFB	91.7	15-244	%Rec	1	7/25/2023 1:33:29 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/25/2023 1:33:29 AM
Toluene	ND	0.048	mg/Kg	1	7/25/2023 1:33:29 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/25/2023 1:33:29 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/25/2023 1:33:29 AM
Surr: 4-Bromofluorobenzene	116	39.1-146	%Rec	1	7/25/2023 1:33:29 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	35000	1500	mg/Kg	500	7/26/2023 10:43:34 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-01 2.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 11:10:00 AM

 Lab ID:
 2307983-008
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/23/2023 3:15:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/23/2023 3:15:40 PM
Surr: DNOP	92.4	69-147	%Rec	1	7/23/2023 3:15:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/25/2023 1:56:52 AM
Surr: BFB	95.5	15-244	%Rec	1	7/25/2023 1:56:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/25/2023 1:56:52 AM
Toluene	ND	0.047	mg/Kg	1	7/25/2023 1:56:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/25/2023 1:56:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	7/25/2023 1:56:52 AM
Surr: 4-Bromofluorobenzene	120	39.1-146	%Rec	1	7/25/2023 1:56:52 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	6500	300	mg/Kg	100	7/26/2023 10:55:59 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-02 0.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 11:20:00 AM

 Lab ID:
 2307983-009
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/23/2023 4:04:54 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/23/2023 4:04:54 PM
Surr: DNOP	96.6	69-147	%Rec	1	7/23/2023 4:04:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/25/2023 2:20:16 AM
Surr: BFB	92.9	15-244	%Rec	1	7/25/2023 2:20:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/25/2023 2:20:16 AM
Toluene	ND	0.049	mg/Kg	1	7/25/2023 2:20:16 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/25/2023 2:20:16 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/25/2023 2:20:16 AM
Surr: 4-Bromofluorobenzene	118	39.1-146	%Rec	1	7/25/2023 2:20:16 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	19000	1200	mg/Kg	400	7/26/2023 11:08:23 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

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Date Reported: 7/31/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-02 2.0'

 Project:
 Laguna Salado Fed 4
 Collection Date: 7/19/2023 11:30:00 AM

 Lab ID:
 2307983-010
 Matrix: SOIL
 Received Date: 7/21/2023 7:50:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/23/2023 4:29:31 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/23/2023 4:29:31 PM
Surr: DNOP	91.8	69-147	%Rec	1	7/23/2023 4:29:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/25/2023 2:43:41 AM
Surr: BFB	93.6	15-244	%Rec	1	7/25/2023 2:43:41 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	7/25/2023 2:43:41 AM
Toluene	ND	0.048	mg/Kg	1	7/25/2023 2:43:41 AM
Ethylbenzene	ND	0.048	mg/Kg	1	7/25/2023 2:43:41 AM
Xylenes, Total	ND	0.095	mg/Kg	1	7/25/2023 2:43:41 AM
Surr: 4-Bromofluorobenzene	118	39.1-146	%Rec	1	7/25/2023 2:43:41 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	6600	300	mg/Kg	100	7/26/2023 11:20:48 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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2307983 31-Jul-23** 

Client: Devon Energy
Project: Laguna Salado Fed 4

Sample ID: MB-76439 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 76439 RunNo: 98504

Prep Date: 7/25/2023 Analysis Date: 7/25/2023 SeqNo: 3586441 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-76439 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 76439 RunNo: 98504 Prep Date: 7/25/2023 Analysis Date: 7/25/2023 SeqNo: 3586442 Units: mg/Kg %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual

Chloride 14 1.5 15.00 0 92.8 90 110

 Sample ID:
 MB-76448
 SampType:
 MBLK
 TestCode:
 EPA Method 300.0:
 Anions

 Client ID:
 PBS
 Batch ID:
 76448
 RunNo:
 98504

 Prep Date:
 7/25/2023
 Analysis Date:
 7/25/2023
 SeqNo:
 3586471
 Units:
 mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-76448 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76448 RunNo: 98504

Prep Date: 7/25/2023 Analysis Date: 7/25/2023 SeqNo: 3586472 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 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

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### Hall Environmental Analysis Laboratory, Inc.

2307983 31-Jul-23

WO#:

Client: Devon Energy
Project: Laguna Salado Fed 4

Sample ID: LCS-76387	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	n ID: <b>763</b>	387	RunNo: 98368						
Prep Date: <b>7/21/2023</b>	Analysis D	ate: 7/2	23/2023	SeqNo: <b>3583070</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	61.9	130			
Surr: DNOP	4.6		5.000	91.4 69 147						

Sample ID: MB-76387 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 76387 RunNo: 98451 Prep Date: 7/21/2023 Analysis Date: 7/24/2023 SeqNo: 3583918 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 10.00 107 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

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### Hall Environmental Analysis Laboratory, Inc.

21

1900

4.8

23.99

959.7

WO#: **2307983** 

31-Jul-23

Client: Devon Energy
Project: Laguna Salado Fed 4

Sample ID: Ics-76381	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 76381	RunNo: 98452
Prep Date: 7/21/2023	Analysis Date: 7/24/2023	SeqNo: <b>3583843</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 94.4 70 130
Surr: BFB	2000 1000	197 15 244
Sample ID: <b>mb-76381</b>	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 76381	RunNo: 98452
Prep Date: 7/21/2023	Analysis Date: <b>7/24/2023</b>	SeqNo: <b>3583844</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	950 1000	95.2 15 244
Sample ID: 2307983-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: <b>BG23-01 0.0'</b>	Batch ID: 76381	RunNo: 98452
Prep Date: 7/21/2023	Analysis Date: 7/24/2023	SeqNo: <b>3584038</b> Units: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sample ID: 230798	3-001amsd	SampT	ype: MS	SD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BG23-0	01 0.0'	Batch	n ID: <b>76</b> 3	381	F	RunNo: 98	3452					
Prep Date: <b>7/21/2023</b> Analysis Date: <b>7/24/2023</b>					SeqNo: <b>3584039</b> Units: <b>mg/Kg</b>							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organic	s (GRO)	21	4.8	24.04	0	87.0	70	130	2.62	20		
Surr: BFB		1800		961.5		190	15	244	0	0		

0

89.5

199

70

15

130

244

#### Qualifiers:

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

Gasoline Range Organics (GRO)

Surr: BFB

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2307983** *31-Jul-23* 

Client: Devon Energy
Project: Laguna Salado Fed 4

Sample ID: LCS-76381	SampT	Гуре: <b>LC</b> :	S	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch	h ID: <b>763</b>	381	F	RunNo: 98452						
Prep Date: 7/21/2023	Analysis D	Date: 7/2	24/2023	5	583856	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	114	70	130				
Toluene	1.1	0.050	1.000	0	115	70	130				
Ethylbenzene	1.2	0.050	1.000	0	117	70	130				
Xylenes, Total	3.5	0.10	3.000	0	118	70	130				
Surr: 4-Bromofluorobenzene	1.2				120	39.1	146				

Sample ID: <b>mb-76381</b>	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les	•	•	
Client ID: PBS	Batch	n ID: <b>76</b> 3	381	F	RunNo: 98	3452					
Prep Date: 7/21/2023	Analysis D	ate: <b>7/</b> 2	24/2023	9	SeqNo: 3	583857	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	1.2		1.000		119	39.1	146				

Sample ID: 2307983-002ams	SampT	уре: МЅ	3	Tes	PA Method	8021B: Volati	les				
Client ID: <b>BG23-01 2.0'</b>	Batcl	n ID: <b>763</b>	3 <b>8</b> 1	F	RunNo: 98452						
Prep Date: 7/21/2023	Analysis D	Date: 7/2	24/2023	9	SeqNo: <b>3584057</b> Unit			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	0.9950	0	105	70	130				
Toluene	1.1	0.050	0.9950	0	108	70	130				
Ethylbenzene	1.1	0.050	0.9950	0	110	70	130				
Xylenes, Total	3.3	0.10	2.985	0	109	70	130				
Surr: 4-Bromofluorobenzene	1.2		0.9950		119	39.1	146				

Sample ID: 2307983-002amsd	SampT	SampType: MSD TestCode: EPA Method 8021B: Volatile								
Client ID: <b>BG23-01 2.0'</b>	Batch	Batch ID: <b>76381</b> RunNo: <b>98452</b>								
Prep Date: 7/21/2023	Analysis D	nalysis Date: <b>7/24/2023</b> SeqNo: <b>3584058</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9930	0	101	70	130	3.57	20	
Toluene	1.0	0.050	0.9930	0	102	70	130	5.27	20	
Ethylbenzene	1.0	0.050	0.9930	0	103	70	130	6.15	20	
Xylenes, Total	3.1	0.099	2.979	0	105	70	130	4.57	20	
Surr: 4-Bromofluorobenzene	1.2		0.9930		119	39.1	146	0	0	

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109

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

### Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name: Devon Energy	Work Order Number: 2307983		RcptNo: 1	
Received By: Juan Rojas 7	/21/2023 7:50:00 AM	(Jeans 9)		
Completed By: Tracy Casarrubias 7	/21/2023 8:15:29 AM			
Reviewed By: 7n 7/21/23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗌	No 🗸	Not Present	
2. How was the sample delivered?	Courier			
Log In  3. Was an attempt made to cool the samples?	Yes <b>⊻</b>	No 🗌	NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes <b>✓</b>	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) properly p	reserved? Yes	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA? Yes	No 🗌	NA 🗹	
10. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗌	bottles checked for pH:	ınless noted)
12. Are matrices correctly identified on Chain of Cu	stody? Yes 🗹	No 🗌	Adjusted)	
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌	/ Gran	07/1
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No 🗌	Checked by: 2Cl	01191
Special Handling (if applicable)			/	
15. Was client notified of all discrepancies with this	order? Yes	No 🗌	NA 🗹	
Person Notified:	Date:			
By Whom:	Via: ☐ eMail	Phone Fax	☐ In Person	
Regarding:				
Client Instructions: Mailing address, pho	one number and Email/Fax are r	nissing on COC - Tl	MC 7/21/23	
16. Additional remarks:				
17. Cooler Information  Cooler No Temp °C Condition Seal  1 0.7 Good Yes	Intact Seal No Seal Date Yogi	Signed By		

C	hain-	of-Cu	istody Reco	ord	Turn-Around					(Corp.)	L	I A		E	NIV	/TE	20	NIN	ЛE	NT	ΔI	
Client:		Dev		-	Standard	I ⊿ Rush	5 Dan	-		$\exists$	1177									TO		-
- 19	Dire	ect B			Project Nam	e: , /	C 1 + H										tal.co					
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QA/QC	Package:				Kent	- Starlling	7	(802	M	PCB's		8270SIMS		PO4, \$		- 1	Abse	-				
□ Stan	dard		☐ Level 4 (Full Va	lidation)		1//		B's	8			708					ent/					
			mpliance		Sampler:		FI No.	≅	TPH 8015D(GRO / DRO / MRO)	8081 Pesticides/8082	504.1)	or 82		$NO_2$ ,		7	Total Coliform (Present/Absent)					
	(Type)	□ Other			On Ice: # of Coolers:	Yes	□ No 909:	H /	GRC	ides	d 50		tals	<u>0</u>		8270 (Semi-VOA)	E					
	(.,),,,,,						.6+0.120.7 (°C)	ĮΕ	15D(	stic	EDB (Method	PAHs by 8310	RCRA 8 Metals	Cl,F, Br, NO3,	8260 (VOA)	emi	e e					
					Container	Preservative	HEAL No.	A		1 Pe	<u>≅</u>	ds b	RA	т,	<u>S</u>	s) 0.	<u>a</u>		16	1 "		
Date	Time	Matrix	Sample Name			Type	2307983		自	808		PA	RC	( <del>5</del> )	826	827	Tot			. (:=		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 08, 2022

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

FAX:

RE: Laguna Salado OrderNo.: 2208H98

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/31/2022 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-01 Oft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 10:30:00 AM

 Lab ID:
 2208H98-001
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 9:08:27 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/2/2022 9:08:27 PM
Surr: DNOP	79.9	21-129	%Rec	1	9/2/2022 9:08:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 9:04:00 PM
Surr: BFB	93.6	37.7-212	%Rec	1	9/1/2022 9:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 9:04:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 9:04:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 9:04:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/1/2022 9:04:00 PM
Surr: 4-Bromofluorobenzene	88.0	70-130	%Rec	1	9/1/2022 9:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	22000	1500	mg/Kg	500	9/6/2022 11:46:24 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-01 1ft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 10:40:00 AM

 Lab ID:
 2208H98-002
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 9:19:31 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/2/2022 9:19:31 PM
Surr: DNOP	82.5	21-129	%Rec	1	9/2/2022 9:19:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 9:23:00 PM
Surr: BFB	93.7	37.7-212	%Rec	1	9/1/2022 9:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 9:23:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 9:23:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 9:23:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 9:23:00 PM
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	9/1/2022 9:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5900	300	mg/Kg	100	9/6/2022 11:58:48 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-01 2ft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 10:50:00 AM

 Lab ID:
 2208H98-003
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	9/2/2022 9:30:37 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/2/2022 9:30:37 PM
Surr: DNOP	85.2	21-129	%Rec	1	9/2/2022 9:30:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 9:43:00 PM
Surr: BFB	93.5	37.7-212	%Rec	1	9/1/2022 9:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>BRM</b>
Benzene	ND	0.025	mg/Kg	1	9/1/2022 9:43:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 9:43:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 9:43:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/1/2022 9:43:00 PM
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	9/1/2022 9:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	7000	300	mg/Kg	100	9/7/2022 12:11:13 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-01 4ft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 11:00:00 AM

 Lab ID:
 2208H98-004
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	9/2/2022 9:41:39 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	9/2/2022 9:41:39 PM
Surr: DNOP	83.2	21-129	%Rec	1	9/2/2022 9:41:39 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2022 10:03:00 PM
Surr: BFB	94.1	37.7-212	%Rec	1	9/1/2022 10:03:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 10:03:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2022 10:03:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2022 10:03:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/1/2022 10:03:00 PM
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	9/1/2022 10:03:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	7800	300	mg/Kg	100	9/7/2022 12:23:38 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 Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-02 Oft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 11:10:00 AM

 Lab ID:
 2208H98-005
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 10:03:31 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 10:03:31 PM
Surr: DNOP	113	21-129	%Rec	1	9/2/2022 10:03:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2022 10:22:00 PM
Surr: BFB	94.2	37.7-212	%Rec	1	9/1/2022 10:22:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 10:22:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2022 10:22:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2022 10:22:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/1/2022 10:22:00 PM
Surr: 4-Bromofluorobenzene	89.5	70-130	%Rec	1	9/1/2022 10:22:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	7000	300	mg/Kg	100	9/7/2022 12:36:03 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-02 1ft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 11:20:00 AM

 Lab ID:
 2208H98-006
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 10:14:29 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 10:14:29 PM
Surr: DNOP	89.5	21-129	%Rec	1	9/2/2022 10:14:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 10:42:00 PM
Surr: BFB	96.1	37.7-212	%Rec	1	9/1/2022 10:42:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 10:42:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 10:42:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 10:42:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 10:42:00 PM
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	9/1/2022 10:42:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	3800	150	mg/Kg	50	9/7/2022 12:48:27 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-02 2ft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 11:30:00 AM

 Lab ID:
 2208H98-007
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 10:25:29 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 10:25:29 PM
Surr: DNOP	80.8	21-129	%Rec	1	9/2/2022 10:25:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 11:02:00 PM
Surr: BFB	98.9	37.7-212	%Rec	1	9/1/2022 11:02:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 11:02:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 11:02:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 11:02:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 11:02:00 PM
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	9/1/2022 11:02:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	2800	150	mg/Kg	50	9/7/2022 1:25:41 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-03 Oft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 11:40:00 AM

 Lab ID:
 2208H98-008
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 10:36:24 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/2/2022 10:36:24 PM
Surr: DNOP	80.8	21-129	%Rec	1	9/2/2022 10:36:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 11:41:00 PM
Surr: BFB	94.8	37.7-212	%Rec	1	9/1/2022 11:41:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>BRM</b>
Benzene	ND	0.024	mg/Kg	1	9/1/2022 11:41:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 11:41:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 11:41:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2022 11:41:00 PM
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	1	9/1/2022 11:41:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	16000	1500	mg/Kg	500	9/7/2022 1:38:06 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/8/2022

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. Client Sample ID: BG22-03 1ft

 Project:
 Laguna Salado
 Collection Date: 8/29/2022 11:50:00 AM

 Lab ID:
 2208H98-009
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 10:47:24 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/2/2022 10:47:24 PM
Surr: DNOP	85.3	21-129	%Rec	1	9/2/2022 10:47:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2022 12:01:00 AM
Surr: BFB	91.3	37.7-212	%Rec	1	9/2/2022 12:01:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>BRM</b>
Benzene	ND	0.025	mg/Kg	1	9/2/2022 12:01:00 AM
Toluene	ND	0.049	mg/Kg	1	9/2/2022 12:01:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2022 12:01:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2022 12:01:00 AM
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	9/2/2022 12:01:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	13000	600	mg/Kg	200	9/7/2022 1:50:31 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H98** 

08-Sep-22

**Client:** Vertex Resources Services, Inc.

**Project:** Laguna Salado

Sample ID: MB-69960 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69960 RunNo: 90825

Prep Date: 9/4/2022 Analysis Date: 9/4/2022 SeqNo: 3247629 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69960 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69960 RunNo: 90825

Prep Date: 9/4/2022 Analysis Date: 9/4/2022 SeqNo: 3247630 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.2 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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H98 08-Sep-22** 

**Client:** Vertex Resources Services, Inc.

**Project:** Laguna Salado

Sample ID: LCS-69963 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69963 RunNo: 90816

Prep Date: 9/6/2022 Analysis Date: 9/6/2022 SeqNo: 3246556 Units: %Rec

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

Surr: DNOP 3.1 5.000 62.4 21 129

Sample ID: MB-69963 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69963 RunNo: 90816

Prep Date: 9/6/2022 Analysis Date: 9/6/2022 SeqNo: 3246558 Units: %Rec

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

Surr: DNOP 7.7 10.00 77.0 21 129

Sample ID: LCS-69899 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 69899 Prep Date: 8/31/2022 Analysis Date: 9/2/2022 SeqNo: 3246702 Units: mq/Kq SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Diesel Range Organics (DRO)
 54
 15
 50.00
 0
 108
 64.4
 127

 Surr: DNOP
 5.7
 5.000
 114
 21
 129

Sample ID: MB-69899 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69899 RunNo: 90763

Prep Date: 8/31/2022 Analysis Date: 9/2/2022 SeqNo: 3246703 Units: mq/Kq

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

Diesel Range Organics (DRO) ND 15
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 105 21 129

#### 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 range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

2100

WO#: **2208H98** 

S

08-Sep-22

**Client:** Vertex Resources Services, Inc.

**Project:** Laguna Salado

Surr: BFB

Sample ID: Ics-69889 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69889 RunNo: 90749

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3243822 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 0 26 5.0 25.00 103 72.3 137

213

37.7

212

Sample ID: mb-69889 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: PBS Batch ID: 69889 RunNo: 90749

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3243823 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 940 1000 94.0 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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H98** 

08-Sep-22

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado

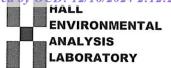
Sample ID: Ics-69889 SampType: LCS				TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Client ID: LCSS Batch ID: 69889			F						
Prep Date: 8/31/2022	Analysis D	ate: 9/	1/2022	SeqNo: <b>3243870</b> U			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.9	80	120			
Toluene	0.91	0.050	1.000	0	90.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.5	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.3	70	130			

Sample ID: <b>mb-69889</b>	Samp	Гуре: <b>МЕ</b>	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	BS Batch ID: 69889			F	RunNo: 9	0749				
Prep Date: 8/31/2022	Analysis [	Date: 9/	1/2022	S	SeqNo: <b>3243871</b> Units: <b>mg/</b>		(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

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

Client Name: Vertex Resources Services, Inc.	Work Order Numb	per: 2208H98		RcptNo: 1	
Received By: Juan Rojas	8/31/2022 7:40:00 A	AM	Guarage		
Completed By: Tracy Casarrubia	s 8/31/2022 8:09:45 A	AM			
Reviewed By: KP4	8.31.20				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u>					
3. Was an attempt made to cool the	samples?	Yes 🗸	No 🗌	NA 🗆	
A. Mars all asserts as a second			🗆	_	
4. Were all samples received at a terr	perature of >0° C to 6.0°C	Yes 🗸	No 📙	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indica	ted test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONC		Yes 🗸	No 🗆		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at least 1 vial with headsp	pace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any sample containers receiv		Yes	No 🗸		
				# of preserved bottles checked	
11. Does paperwork match bottle labels		Yes 🗸	No 🗌	for pH:	
(Note discrepancies on chain of cus 12. Are matrices correctly identified on		Yes 🗸	No 🗆	(<2 or >12 u Adjusted?	inless noted)
13. Is it clear what analyses were reque		Yes 🗸	No 🗆		
14. Were all holding times able to be m		Yes 🗹	No 🗆	Checked by: 1/2 8	131/22
(If no, notify customer for authorizat		_			
Special Handling (if applicable	<u>)</u>		-		
15. Was client notified of all discrepand	cies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail	hone  Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condi		Seal Date	Signed By		
1 0.9 Good	Yes				

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	Chain	-of-Cu	ustody Record	Turn-Around															11 11/		eive
Client:	Devo	NB	vergy (vertex)	∫	d ₩ Rush	5 mu											NM			AL ORY	by (
				Project Nam	t Krust e: a Salad											tal.co					)CD
Mailing	Address	: On	Filo	Laguin	asalao	MO		49	01 H								он М 87 <sup>.</sup>	100			: 12/
			, ,	Project #:					el. 50								-4107				16/2
Phone	#:			12E-1	01927							STATE STATE OF	HAME TO STREET	STATE OF THE PERSON NAMED IN	A SHAREST	uest	-				024
email o	r Fax#:			Project Mana	ager:		£	(Q)					SO4			nt)		Т	9100		.12:
QA/QC	Package: idard		☐ Level 4 (Full Validation)	Vent	Stalli	ings a fallige	's (8021)	O / MRO)	PCB's		8270SIMS		PO <sub>4</sub> ,			Coliform (Present/Absent)					12:22 PM
Accred		☐ Az Co	ompliance -	Sampler:	Eman)  X-Yes	a falige	/ TMB	O / DR	3/8082	(Method 504.1)	or 8270	=	NO <sub>2</sub> ,		æ	Preser					
	(Type)			# of Coolers:			MTBE	(GR	ides	od 5		Metals	NO <sub>3</sub> ,	(	-00	E .					
			=	Cooler Temp	O(including CF): (	9-9-0-0-9 (°C)		)15D	estic	<b>Jeth</b>	y 8	$\infty$	Br,	VOA	Semi	olifo					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208H98	(ETEX)	TPH:8015D(GRO / DRO	8081 Pesticides/8082	EDB (A	PAHs by 8310	₹	(C) F,	8260 (VOA)	8270 (Semi-VOA)	Total C					
8/19	10:30	Soil	RG22-01 OFF	402 Jav	ce	001															
	10:40		8672-01 LFT	1		002	$\sqrt{}$														
	10:20		8672-01 2FT			003	<i></i>					4	$\mathcal{J}$							$\top$	
	11:00		8G22-01 4Ft			004	$\rightarrow$					7			(210)						
	11:10		8G22-02 Oft			005	$\checkmark$						$\sqrt{\ }$								
	11:20		BG22-02 1St			606		$\mathcal{I}_{l}$					$\checkmark$								
	11:30		8522-02 2GT			700	$\checkmark$	$J_{l}$					$\mathcal{I}_{/}$								
	11:40		BG12-03 OFF			008		$\mathcal{I}$					$\checkmark$								
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Bola	900	aa	lling)	12	Louisev	8/31/22 7/40								100							207 of 303
	If necessary,	samples sub	mitted to Hall Envilonmental may be subc	ontracted to other a	ccredited laboratorie	es. This serves as notice of this	possi	ibility.	Any su	b-conti	acted	data	will be	clearl	y nota	ted on	the ana	lytical	report.		<u>~</u>



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

April 25, 2023

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

FAX:

RE: Laguna Salado 5 OrderNo.: 2304663

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 26 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-01 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:00:00 AM

 Lab ID:
 2304663-001
 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 OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/19/2023 1:27:09 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 1:27:09 AM
Surr: DNOP	130	69-147	%Rec	1	4/19/2023 1:27:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 1:53:00 AM
Surr: BFB	90.0	37.7-212	%Rec	1	4/19/2023 1:53:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 1:53:00 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 1:53:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 1:53:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/19/2023 1:53:00 AM
Surr: 4-Bromofluorobenzene	84.6	70-130	%Rec	1	4/19/2023 1:53:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	5200	300	mg/Kg	100	4/20/2023 8:41:58 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-02 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:05:00 AM

 Lab ID:
 2304663-002
 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 OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/19/2023 1:37:54 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 1:37:54 AM
Surr: DNOP	87.4	69-147	%Rec	1	4/19/2023 1:37:54 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 2:15:00 AM
Surr: BFB	88.9	37.7-212	%Rec	1	4/19/2023 2:15:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 2:15:00 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 2:15:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 2:15:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/19/2023 2:15:00 AM
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	4/19/2023 2:15:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	7600	6000	mg/Kg	2000	4/20/2023 8:54:23 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-03 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:10:00 AM

 Lab ID:
 2304663-003
 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	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/19/2023 1:48:38 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 1:48:38 AM
Surr: DNOP	85.0	69-147	%Rec	1	4/19/2023 1:48:38 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 2:36:00 AM
Surr: BFB	94.9	37.7-212	%Rec	1	4/19/2023 2:36:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 2:36:00 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 2:36:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 2:36:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/19/2023 2:36:00 AM
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	4/19/2023 2:36:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	31000	1500	mg/Kg	500	4/20/2023 9:06:47 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-04 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:15:00 AM

 Lab ID:
 2304663-004
 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 OF	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	4/19/2023 2:09:58 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/19/2023 2:09:58 AM
Surr: DNOP	86.7	69-147	%Rec	1	4/19/2023 2:09:58 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/19/2023 2:58:00 AM
Surr: BFB	89.4	37.7-212	%Rec	1	4/19/2023 2:58:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	4/19/2023 2:58:00 AM
Toluene	ND	0.046	mg/Kg	1	4/19/2023 2:58:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	4/19/2023 2:58:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	4/19/2023 2:58:00 AM
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	4/19/2023 2:58:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	140000	15000	mg/Kg	5000	4/20/2023 9:19:12 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-05 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:20:00 AM

 Lab ID:
 2304663-005
 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	SANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/19/2023 2:20:55 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 2:20:55 AM
Surr: DNOP	87.0	69-147	%Rec	1	4/19/2023 2:20:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 3:41:00 AM
Surr: BFB	87.2	37.7-212	%Rec	1	4/19/2023 3:41:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 3:41:00 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 3:41:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 3:41:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/19/2023 3:41:00 AM
Surr: 4-Bromofluorobenzene	83.9	70-130	%Rec	1	4/19/2023 3:41:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	48000	3000	mg/Kg	1000	4/20/2023 9:31:37 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

rting Limit Page 5 of 33

Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-06 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:25:00 AM

 Lab ID:
 2304663-006
 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 O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/19/2023 2:31:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 2:31:50 AM
Surr: DNOP	111	69-147	%Rec	1	4/19/2023 2:31:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 4:03:00 AM
Surr: BFB	84.9	37.7-212	%Rec	1	4/19/2023 4:03:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/19/2023 4:03:00 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 4:03:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 4:03:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/19/2023 4:03:00 AM
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	4/19/2023 4:03:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	15000	600	mg/Kg	200	4/20/2023 9:44:01 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-07 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:30:00 AM

 Lab ID:
 2304663-007
 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	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/19/2023 2:42:43 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/19/2023 2:42:43 AM
Surr: DNOP	77.1	69-147	%Rec	1	4/19/2023 2:42:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/19/2023 4:24:00 AM
Surr: BFB	89.3	37.7-212	%Rec	1	4/19/2023 4:24:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	4/19/2023 4:24:00 AM
Toluene	ND	0.047	mg/Kg	1	4/19/2023 4:24:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/19/2023 4:24:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	4/19/2023 4:24:00 AM
Surr: 4-Bromofluorobenzene	84.8	70-130	%Rec	1	4/19/2023 4:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4100	150	mg/Kg	50	4/20/2023 9:56:25 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-08 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:35:00 AM

 Lab ID:
 2304663-008
 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	ORGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	43	9.6	mg/Kg	1	4/19/2023 2:53:34 AM
Motor Oil Range Organics (MRO)	53	48	mg/Kg	1	4/19/2023 2:53:34 AM
Surr: DNOP	97.1	69-147	%Rec	1	4/19/2023 2:53:34 AM
EPA METHOD 8015D: GASOLINE RANGE	Ē				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/19/2023 4:46:00 AM
Surr: BFB	89.6	37.7-212	%Rec	1	4/19/2023 4:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/19/2023 4:46:00 AM
Toluene	ND	0.050	mg/Kg	1	4/19/2023 4:46:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/19/2023 4:46:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/19/2023 4:46:00 AM
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	4/19/2023 4:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	61000	6000	mg/Kg	2000	4/20/2023 10:08:50 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-09 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:40:00 AM

 Lab ID:
 2304663-009
 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: <b>DGH</b>			
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/19/2023 3:14:57 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 3:14:57 AM
Surr: DNOP	95.9	69-147	%Rec	1	4/19/2023 3:14:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/19/2023 5:08:00 AM
Surr: BFB	93.5	37.7-212	%Rec	1	4/19/2023 5:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	4/19/2023 5:08:00 AM
Toluene	ND	0.050	mg/Kg	1	4/19/2023 5:08:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/19/2023 5:08:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	4/19/2023 5:08:00 AM
Surr: 4-Bromofluorobenzene	86.7	70-130	%Rec	1	4/19/2023 5:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	99000	5900	mg/Kg	2000	4/20/2023 10:21:15 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-10 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:45:00 AM

 Lab ID:
 2304663-010
 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: <b>DGH</b>			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/19/2023 3:25:46 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 3:25:46 AM
Surr: DNOP	99.8	69-147	%Rec	1	4/19/2023 3:25:46 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 5:29:00 AM
Surr: BFB	89.4	37.7-212	%Rec	1	4/19/2023 5:29:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 5:29:00 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 5:29:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 5:29:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/19/2023 5:29:00 AM
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	4/19/2023 5:29:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	110000	15000	mg/Kg	5000	4/20/2023 10:58:28 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-11 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:50:00 AM

 Lab ID:
 2304663-011
 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	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/19/2023 3:36:34 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/19/2023 3:36:34 AM
Surr: DNOP	95.0	69-147	%Rec	1	4/19/2023 3:36:34 AM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 5:51:00 AM
Surr: BFB	87.6	37.7-212	%Rec	1	4/19/2023 5:51:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 5:51:00 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 5:51:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 5:51:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/19/2023 5:51:00 AM
Surr: 4-Bromofluorobenzene	83.8	70-130	%Rec	1	4/19/2023 5:51:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	16000	600	mg/Kg	200	4/20/2023 11:10:52 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-12 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 9:55:00 AM

 Lab ID:
 2304663-012
 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 OF	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	4/19/2023 3:47:21 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 3:47:21 AM
Surr: DNOP	91.9	69-147	%Rec	1	4/19/2023 3:47:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 6:12:00 AM
Surr: BFB	91.7	37.7-212	%Rec	1	4/19/2023 6:12:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/19/2023 6:12:00 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 6:12:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 6:12:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/19/2023 6:12:00 AM
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	4/19/2023 6:12:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	2600	150	mg/Kg	50	4/21/2023 10:55:52 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-13 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:00:00 AM

 Lab ID:
 2304663-013
 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 O	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/19/2023 5:06:51 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 5:06:51 PM
Surr: DNOP	93.1	69-147	%Rec	1	4/19/2023 5:06:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/19/2023 12:01:53 AM
Surr: BFB	91.8	37.7-212	%Rec	1	4/19/2023 12:01:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.024	mg/Kg	1	4/19/2023 12:01:53 AM
Toluene	ND	0.047	mg/Kg	1	4/19/2023 12:01:53 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/19/2023 12:01:53 AM
Xylenes, Total	ND	0.094	mg/Kg	1	4/19/2023 12:01:53 AM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	4/19/2023 12:01:53 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	33000	1500	mg/Kg	500	4/21/2023 11:08:16 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-14 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:05:00 AM

 Lab ID:
 2304663-014
 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	10	mg/Kg	1	4/19/2023 5:17:30 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 5:17:30 PM
Surr: DNOP	91.8	69-147	%Rec	1	4/19/2023 5:17:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 1:12:08 AM
Surr: BFB	105	37.7-212	%Rec	1	4/19/2023 1:12:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/19/2023 1:12:08 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 1:12:08 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 1:12:08 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/19/2023 1:12:08 AM
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	4/19/2023 1:12:08 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	35000	1500	mg/Kg	500	4/21/2023 11:20:40 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-15 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:10:00 AM

 Lab ID:
 2304663-015
 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 C	Analyst: <b>PRD</b>				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/19/2023 5:28:12 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/19/2023 5:28:12 PM
Surr: DNOP	92.4	69-147	%Rec	1	4/19/2023 5:28:12 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 2:22:04 AM
Surr: BFB	93.6	37.7-212	%Rec	1	4/19/2023 2:22:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.024	mg/Kg	1	4/19/2023 2:22:04 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 2:22:04 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 2:22:04 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/19/2023 2:22:04 AM
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	4/19/2023 2:22:04 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	17000	600	mg/Kg	200	4/21/2023 11:33:05 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-16 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:15:00 AM

 Lab ID:
 2304663-016
 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: <b>PRD</b>				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/19/2023 5:38:52 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 5:38:52 PM
Surr: DNOP	88.2	69-147	%Rec	1	4/19/2023 5:38:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 2:45:26 AM
Surr: BFB	108	37.7-212	%Rec	1	4/19/2023 2:45:26 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.025	mg/Kg	1	4/19/2023 2:45:26 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 2:45:26 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 2:45:26 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/19/2023 2:45:26 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	4/19/2023 2:45:26 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	5200	300	mg/Kg	100	4/21/2023 12:10:18 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-17 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:20:00 AM

 Lab ID:
 2304663-017
 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	9.9	mg/Kg	1	4/19/2023 5:49:38 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 5:49:38 PM
Surr: DNOP	86.2	69-147	%Rec	1	4/19/2023 5:49:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 3:08:52 AM
Surr: BFB	99.4	37.7-212	%Rec	1	4/19/2023 3:08:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/19/2023 3:08:52 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 3:08:52 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 3:08:52 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/19/2023 3:08:52 AM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	4/19/2023 3:08:52 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	530	60	mg/Kg	20	4/19/2023 4:32:40 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-18 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:25:00 AM

 Lab ID:
 2304663-018
 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	9.5	mg/Kg	1	4/19/2023 6:00:27 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 6:00:27 PM
Surr: DNOP	95.3	69-147	%Rec	1	4/19/2023 6:00:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 3:32:24 AM
Surr: BFB	94.1	37.7-212	%Rec	1	4/19/2023 3:32:24 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/19/2023 3:32:24 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 3:32:24 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 3:32:24 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/19/2023 3:32:24 AM
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	4/19/2023 3:32:24 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	43000	1500	mg/Kg	500	4/21/2023 12:22:43 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-19 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:30:00 AM

 Lab ID:
 2304663-019
 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 C	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/19/2023 6:11:16 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/19/2023 6:11:16 PM
Surr: DNOP	92.8	69-147	%Rec	1	4/19/2023 6:11:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/20/2023 12:41:46 AM
Surr: BFB	83.0	37.7-212	%Rec	1	4/20/2023 12:41:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/20/2023 12:41:46 AM
Toluene	ND	0.050	mg/Kg	1	4/20/2023 12:41:46 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/20/2023 12:41:46 AM
Xylenes, Total	ND	0.10	mg/Kg	1	4/20/2023 12:41:46 AM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	4/20/2023 12:41:46 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	59000	3000	mg/Kg	1000	4/21/2023 12:35:08 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-20 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:35:00 AM

 Lab ID:
 2304663-020
 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	9.2	mg/Kg	1	4/19/2023 6:22:08 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/19/2023 6:22:08 PM
Surr: DNOP	87.8	69-147	%Rec	1	4/19/2023 6:22:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/20/2023 1:05:11 AM
Surr: BFB	98.1	37.7-212	%Rec	1	4/20/2023 1:05:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/20/2023 1:05:11 AM
Toluene	ND	0.049	mg/Kg	1	4/20/2023 1:05:11 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/20/2023 1:05:11 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/20/2023 1:05:11 AM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	4/20/2023 1:05:11 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	33000	1500	mg/Kg	500	4/21/2023 12:47:32 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 Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-21 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:40:00 AM

 Lab ID:
 2304663-021
 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 OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/19/2023 6:33:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 6:33:00 PM
Surr: DNOP	77.8	69-147	%Rec	1	4/19/2023 6:33:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/19/2023 4:42:51 AM
Surr: BFB	97.2	37.7-212	%Rec	1	4/19/2023 4:42:51 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	4/19/2023 4:42:51 AM
Toluene	ND	0.047	mg/Kg	1	4/19/2023 4:42:51 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/19/2023 4:42:51 AM
Xylenes, Total	ND	0.094	mg/Kg	1	4/19/2023 4:42:51 AM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	4/19/2023 4:42:51 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	2500	150	mg/Kg	50	4/21/2023 12:59:57 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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-22 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:45:00 AM

 Lab ID:
 2304663-022
 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 (	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/19/2023 6:43:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 6:43:52 PM
Surr: DNOP	79.3	69-147	%Rec	1	4/19/2023 6:43:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/19/2023 5:06:08 AM
Surr: BFB	103	37.7-212	%Rec	1	4/19/2023 5:06:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/19/2023 5:06:08 AM
Toluene	ND	0.048	mg/Kg	1	4/19/2023 5:06:08 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/19/2023 5:06:08 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/19/2023 5:06:08 AM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	4/19/2023 5:06:08 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	72	60	mg/Kg	20	4/19/2023 5:34:43 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-23 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:50:00 AM

 Lab ID:
 2304663-023
 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 O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/19/2023 7:05:38 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/19/2023 7:05:38 PM
Surr: DNOP	91.6	69-147	%Rec	1	4/19/2023 7:05:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/19/2023 5:53:17 AM
Surr: BFB	91.1	37.7-212	%Rec	1	4/19/2023 5:53:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	4/19/2023 5:53:17 AM
Toluene	ND	0.047	mg/Kg	1	4/19/2023 5:53:17 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/19/2023 5:53:17 AM
Xylenes, Total	ND	0.094	mg/Kg	1	4/19/2023 5:53:17 AM
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	4/19/2023 5:53:17 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	3700	150	mg/Kg	50	4/21/2023 1:12:22 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-24 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 10:55:00 AM

 Lab ID:
 2304663-024
 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 C	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/19/2023 7:16:38 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/19/2023 7:16:38 PM
Surr: DNOP	86.5	69-147	%Rec	1	4/19/2023 7:16:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 6:16:46 AM
Surr: BFB	89.6	37.7-212	%Rec	1	4/19/2023 6:16:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>JJP</b>
Benzene	ND	0.024	mg/Kg	1	4/19/2023 6:16:46 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 6:16:46 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 6:16:46 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/19/2023 6:16:46 AM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	4/19/2023 6:16:46 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	42000	1500	mg/Kg	500	4/21/2023 1:24:47 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-25 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 11:00:00 AM

 Lab ID:
 2304663-025
 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	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/19/2023 7:27:38 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/19/2023 7:27:38 PM
Surr: DNOP	98.6	69-147	%Rec	1	4/19/2023 7:27:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 6:40:10 AM
Surr: BFB	108	37.7-212	%Rec	1	4/19/2023 6:40:10 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	4/19/2023 6:40:10 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 6:40:10 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 6:40:10 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/19/2023 6:40:10 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	4/19/2023 6:40:10 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	1700	60	mg/Kg	20	4/19/2023 6:36:45 PM

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

Qualifiers:

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

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Date Reported: 4/25/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS23-26 0'

 Project:
 Laguna Salado 5
 Collection Date: 4/13/2023 11:05:00 AM

 Lab ID:
 2304663-026
 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 OI	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/19/2023 7:38:36 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/19/2023 7:38:36 PM
Surr: DNOP	81.8	69-147	%Rec	1	4/19/2023 7:38:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2023 7:03:31 AM
Surr: BFB	111	37.7-212	%Rec	1	4/19/2023 7:03:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	4/19/2023 7:03:31 AM
Toluene	ND	0.049	mg/Kg	1	4/19/2023 7:03:31 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2023 7:03:31 AM
Xylenes, Total	ND	0.098	mg/Kg	1	4/19/2023 7:03:31 AM
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	4/19/2023 7:03:31 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	4/19/2023 6:49:10 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

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

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

Chloride 14 1.5 15.00 0 94.2 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

Project: Laguna	Salado 5		
Sample ID: LCS-74375	SampType: LCS	TestCode: EPA Method 8015	M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 74375	RunNo: <b>96131</b>	
Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: <b>3481381</b> Unit	s: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	ghLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	41 10 50.00	0 81.9 61.9	130
Surr: DNOP	4.3 5.000	85.4 69	147
Sample ID: LCS-74395	SampType: <b>LCS</b>	TestCode: EPA Method 8015	M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 74395	RunNo: 96131	
Prep Date: 4/18/2023	Analysis Date: 4/19/2023	SeqNo: <b>3481382</b> Unit	s: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	ghLimit %RPD RPDLimit Qual
Surr: DNOP	4.3 5.000	86.1 69	147
Sample ID: MB-74375	SampType: MBLK	TestCode: EPA Method 8015	M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 74375	RunNo: <b>96131</b>	
Prep Date: 4/17/2023	Analysis Date: 4/18/2023	SeqNo: <b>3481385</b> Unit	s: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	ghLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	8.7 10.00	86.6 69 	147
Sample ID: MB-74395	SampType: MBLK	TestCode: EPA Method 8015	M/D: Diesel Range Organics
Client ID: PBS	Batch ID: <b>74395</b>	RunNo: <b>96131</b>	
Prep Date: 4/18/2023	Analysis Date: 4/19/2023	SeqNo: <b>3481386</b> Unit	s: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	ghLimit %RPD RPDLimit Qual
Surr: DNOP	8.8 10.00	87.7 69	147
Sample ID: MB-74381	SampType: MBLK	TestCode: EPA Method 8015	M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 74381	RunNo: <b>96159</b>	
Prep Date: 4/18/2023	Analysis Date: 4/19/2023	SeqNo: <b>3481897</b> Unit	s: <b>mg/Kg</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	ghLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50	07.7	
Surr: DNOP	8.8 10.00	87.7 69	147
Sample ID: LCS-74381	SampType: LCS	TestCode: EPA Method 8015	M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: <b>74381</b>	RunNo: 96159	
Prep Date: 4/18/2023	Analysis Date: 4/19/2023	SeqNo: <b>3481900</b> Unit	s: <b>mg/Kg</b>

#### Qualifiers:

Analyte

- 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.

Result

PQL

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

%REC

LowLimit

HighLimit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

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**RPDLimit** 

Qual

%RPD

## Hall Environmental Analysis Laboratory, Inc.

38

4.2

9.2

46.17

4.617

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

Diesel Range Organics (DRO)

Surr: DNOP

Sample ID: LCS-74381	SampType:	LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID:	74381	F	RunNo: 96159						
Prep Date: 4/18/2023	Analysis Date:	Analysis Date: 4/19/2023 SeqNo: 3481900					Units: mg/Kg			
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	37	10 50.00	0	73.3	61.9	130				
Surr: DNOP	4.1	5.000		82.7	69	147				
Sample ID: 2304663-013AMS	SampType:	MS	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: \$\$23-13 0'	Batch ID:	74381	RunNo: 96159							
Prep Date: 4/18/2023	Analysis Date:	4/20/2023	;	SeqNo: 34	481911	Units: mg/K	(g			
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Sample ID: 2304663-013AMSD	SampT	ype: MS	D	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: \$\$23-13 0'	Batch	ID: <b>743</b>	81	RunNo: <b>96159</b>							
Prep Date: 4/18/2023	Analysis D	ate: 4/2	20/2023	SeqNo: 3481912			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	39	9.3	46.69	0	83.3	54.2	135	1.33	29.2		
Surr: DNOP	4.2		4.669		89.4	69	147	0	0		

0

83.1

91.2

54.2

69

135

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

Project: Laguna S	alado 5								
Sample ID: Ics-74370	SampType: Lo	cs	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 74	1370	F	RunNo: 96093					
Prep Date: 4/17/2023	Analysis Date: 4	/18/2023	5	SeqNo: 3	481111	Units: mg/Kg			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0		0	85.0	70	130			
Surr: BFB	2000	1000		196	37.7	212			
Sample ID: mb-74370	SampType: M	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 74	1370	F	RunNo: <b>96093</b>					
Prep Date: 4/17/2023	Analysis Date: 4	/18/2023	5	SeqNo: 34	481112	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	890	1000		89.1	37.7	212			
Sample ID: Ics-74376	SampType: Lo	cs	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 74	1376	F	RunNo: 9	6123				
Prep Date: <b>4/17/2023</b>	Analysis Date: 4	/18/2023	5	SeqNo: 34	481407	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		0	92.0	70	130			
Surr: BFB	5100	1000		509	37.7	212			S
Sample ID: mb-74376	SampType: M	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range	1	
Client ID: PBS	Batch ID: 74	1376	F	RunNo: 9	6123				
Prep Date: 4/17/2023	Analysis Date: 4	/18/2023	5	SeqNo: 34	481408	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	960	1000		96.1	37.7	212			
Sample ID: <b>2304663-013ams</b>	SampType: M	S	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID: \$\$23-13 0'	Batch ID: 74	1376	F	RunNo: 9	6123				
Prep Date: 4/17/2023	Analysis Date: 4	/19/2023	(	SeqNo: 34	481412	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20 4.7		0	85.9	70	130			
Surr: BFB	4600	945.2		488	37.7	212			S
Sample ID: <b>2304663-013amsd</b>	SampType: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID: <b>SS23-13 0'</b>	Batch ID: 74	1376	F	RunNo: 90	6123				
Prep Date: 4/17/2023	Analysis Date: 4	/19/2023	5	SeqNo: 34	481413	Units: mg/K	(g		

#### Qualifiers:

Analyte

- 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

%REC

LowLimit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

PQL

Result

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**RPDLimit** 

Qual

%RPD

HighLimit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

Sample ID: 2304663-013amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: \$\$23-13 0' Batch ID: 74376 RunNo: 96123

Prep Date: 4/17/2023	Analysis D	ate: <b>4/</b> 1	19/2023	5	SeqNo: 34	481413	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.47	0	95.1	70	130	9.46	20	
Surr: BFB	5000		939.0		534	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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

Sample ID: Ics-74370	Samp	Гуре: <b>LC</b> :	S	Tes							
Client ID: LCSS	Batcl	Batch ID: <b>74370</b> RunNo: <b>96093</b>									
Prep Date: 4/17/2023	Analysis [	Date: <b>4/</b> 1	: <b>4/18/2023</b> SeqNo: <b>3481168</b>					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: <b>mb-74370</b>	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: <b>74</b> 3	370	F	RunNo: 90	6093				
Prep Date: 4/17/2023	Analysis [	Date: 4/	18/2023	5	SeqNo: 34	481169	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	0.85		1.000		85.4	70	130			

Sample ID: LCS-74376	Samp	ype: <b>LC</b>	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	n ID: <b>743</b>	376	F	RunNo: <b>96</b>	6123				
Prep Date: 4/17/2023	Analysis [	Date: <b>4/</b> 1	18/2023	5	SeqNo: 34	181436	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.86	0.050	1.000	0	86.0	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: mb-74376	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batcl	n ID: <b>74</b> 3	376	F	RunNo: 96	6123				
Prep Date: 4/17/2023	Analysis D	Date: 4/	18/2023	9	SeqNo: 34	181437	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	0.94		1.000		94.3	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
- 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 32 of 33

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304663** 

25-Apr-23

Client: Vertex Resources Services, Inc.

**Project:** Laguna Salado 5

Sample ID: 2304663-014ams	Samp	Гуре: МЅ	3	TestCode: EPA Method 8021B: Volatiles								
Client ID: \$\$23-14 0'	Batc	h ID: <b>743</b>	376	F	RunNo: 90							
Prep Date: 4/17/2023	Analysis [	Date: <b>4/</b>	19/2023	5	SeqNo: 34	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.85	0.024	0.9756	0	87.2	68.8	120					
Toluene	0.87	0.049	0.9756	0.01816	87.8	73.6	124					
Ethylbenzene	0.88	0.049	0.9756	0	90.1	72.7	129					
Xylenes, Total	2.7	0.098	2.927	0	90.8	75.7	126					
Surr: 4-Bromofluorobenzene	0.98		0.9756		101	70	130					

Sample ID: 2304663-014ams	D4663-014amsd   SampType: MSD   TestCode: EPA Method 8021B: Volatiles												
Client ID: \$\$23-14 0'	Bato	h ID: <b>74</b> :	376	F	RunNo: <b>96123</b>								
Prep Date: 4/17/2023	Analysis	Date: <b>4/</b>	19/2023	;	SeqNo: 34	481442	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.84	0.024	0.9794	0	85.6	68.8	120	1.44	20				
Toluene	0.86	0.049	0.9794	0.01816	85.7	73.6	124	1.90	20				
Ethylbenzene	0.88	0.049	0.9794	0	89.4	72.7	129	0.434	20				
Xylenes, Total	2.6	0.098	2.938	0	90.1	75.7	126	0.445	20				
Surr: 4-Bromofluorobenzene	0.96		0.9794		98.1	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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name:	Vertex Resources Services, Inc.	Work Order Nun	nber: 2304663		RcptNo: 1	
Received By:	Cheyenne Cason	4/15/2023 8:40:00	АМ	Chenl		
Completed By:	Cheyenne Cason	4/17/2023 8:20:47	AM	Chenl		
Reviewed By:	W 4/17/2	3				
Chain of Cus	stody					
1. Is Chain of C	Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		<u>Courier</u>			
Log In	mpt made to cool the sampl	067	Yes 🗹	No 🗌	na 🗆	
o. was an auci	mpt made to cool the sample	<b>53</b> :	162 1	110		
4. Were all sam	ples received at a temperat	ure of >0° C to 6.0°C	Yes 🔽	No 🗌	NA $\square$	
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗆		
6. Sufficient san	nple volume for indicated te	st(s)?	Yes 🗹	No 🗌		
7. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
8. Was preserva	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at l	east 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sa	mple containers received be	roken?	Yes 🗀	No 🗹	# of preserved	
	ork match bottle labels? pancies on chain of custody	ı	Yes 🗹	No 🗆	bottles checked for pH: (<2 or >	12 unless peted)
	correctly identified on Chair		Yes 🗹	No 🗆	Adjusted?	
13. Is it clear wha	at analyses were requested	?	Yes 🗹	No 🗌		
	ing times able to be met? customer for authorization.)		Yes 🗹	No 🗆	Checked by: Ju-	4/17/23
Special Hand	ling (if applicable)					
15. Was client n	otified of all discrepancies v	vith this order?	Yes 🗌	No 🗌	NA 🗹	
Persor	Notified:	Date	e:			
By Wh	om:	Via:	eMail [	Phone 🔲 Fax	☐ In Person	
Regard	ding:					
Client	Instructions:					
16. Additional re	emarks:					
17. Cooler Info	rmation					
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
1	1.0 Good	Not Present Morty				

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: Devon (Vertex)	Standard Rush 5 Nau Project Name:  Laguna Salado 5	ANALYSIS LABORATORY
	Project Name:	www.hallenvironmental.com
Mailing Address: On File	Laguna Salado 5	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	22E-01927	Analysis Request
email or Fax#:	Project Manager:	SO <sub>4</sub> (SO
QA/QC Package:	Kent Stallings	BTEX MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CJ, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)
☐ Standard ☐ Level 4 (Full Validation)		/ DRO / DRO / DRO / DRO / DRO / ORO
Accreditation:   Az Compliance	Sampler: Hunter Hein On Ice: Yes   No Marky	BTEX) MTBE / TMB TPH:8015D(GRO / DR 8081 Pesticides/8082 EDB (Method 504.1) PAHs by 8310 or 827 RCRA 8 Metals GJ, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , 8260 (VOA) Total Coliform (Prese
□ NELAC □ Other	On Ice: Yes No No No Hora	
□ EDD (Type)	Cooler Temp(including CF): \ , ( - 0.1 = 1.0 (°C)	MTBE / D15D(GRC Pesticides/ Method 50 by 8310 o by 8310 o by 8310 o by 8310 o Coliform (F
	LIEAL No.	TEX) MTBE / T TPH:8015D(GRO / 8081 Pesticides/8( EDB (Method 504. PAHs by 8310 or 8 RCRA 8 Metals CJ, F, Br, NO <sub>3</sub> , N 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Pr
Comple Name	Container Preservative HEAL No. Type and # Type 7304663	BTEX) MTBE / TPH:8015D(GRC 8081 Pesticides/ EDB (Method 5C PAHS by 8310 o RCRA 8 Metals CJ, F, Br, NO <sub>3</sub> , 8260 (VOA) 8270 (Semi-VO, Total Coliform (I
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9:10 5523-03 0'	003	
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9:20 5623-05 0'	005	
9:25 5523-06 0'	006	
9:20 (5923-1)7	007	
9:35 5623-08 0'	008	<del> </del>
9:40 5523-09 8'	009	147   1   1   1   1   1   1   1   1   1
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4/15/23 3:00 Hanter Telen	Mulling 414/33 945	Remarks: CC. Kent Stallings (Vertex)
Date: Time: Relinquished by:	Received by: Via: Date Time	
MHM MOD MALLINIA	mc cower 4/15/20 084	O to the date will be clearly notated on the analytical report.

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Accred		□ Az Co	mpliance	· · · · · · · · · · · · · · · · · · ·			nuter	Hein	TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	504.1)	827		% NO21		Total Coliform (Present/Absent)				
□ NEL		□ Other			On Ice		Yes	1 No Mark		잂	3/sə	207	٥		- 1	8270 (Semi-VOA)	9		ES CH		
	(Type)					oolers:		-0.1=1.0 (°C)	MTBE /	9	ţicid	EDB (Method	PAHs by 8310	8 Metals	Br, NO <sub>3</sub> ,	1	for	Service			
					Coole	r Temp	(including CF):	-0.151.0 (°C)	≥	015	Pes	Met	2			Sel	S		100		1 1 1
					Conta	iner	Preservative	HEAL No.	BTEX)	ᇎ	2	)B(	꽃	RCRA	Ch,F,	5 5	gal	S 21 W	E3-44 75 7		1 1 1
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	(Type)			# of Coolers:		7	Ⅱ	(GF	Side	340 Sd 5	etals	ပ္ခ်	<u> </u>		E	100			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	-0.151.0 (°C)  HEAL No.  7304663	BTEX) M	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1) PAHs hv 8310 or 82	RCRA 8 Metals	ClyF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
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ココノグウ	1900	1900	lung)	INV	Cour	4/15/23 0840													



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

July 17, 2023

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

FAX:

RE: Spud 16 State 010 OrderNo.: 2307083

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 28 sample(s) on 7/6/2023 for the analyses presented in the following report.

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

Please 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: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-16 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:05:00 AM

 Lab ID:
 2307083-001
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	ses Result RL Qual Units				Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/6/2023 3:51:46 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/6/2023 3:51:46 PM
Surr: DNOP	89.4	69-147	%Rec	1	7/6/2023 3:51:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/7/2023 10:30:00 PM
Surr: BFB	93.8	15-244	%Rec	1	7/7/2023 10:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/7/2023 10:30:00 PM
Toluene	ND	0.048	mg/Kg	1	7/7/2023 10:30:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/7/2023 10:30:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/7/2023 10:30:00 PM
Surr: 4-Bromofluorobenzene	92.6	39.1-146	%Rec	1	7/7/2023 10:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	4700	150	mg/Kg	50	7/7/2023 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 1 of 35

Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-16 4'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:10:00 AM

 Lab ID:
 2307083-002
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	ses Result RL Qual Units				Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/6/2023 4:24:53 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 4:24:53 PM
Surr: DNOP	86.6	69-147	%Rec	1	7/6/2023 4:24:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/7/2023 10:52:00 PM
Surr: BFB	103	15-244	%Rec	1	7/7/2023 10:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	7/7/2023 10:52:00 PM
Toluene	ND	0.048	mg/Kg	1	7/7/2023 10:52:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/7/2023 10:52:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/7/2023 10:52:00 PM
Surr: 4-Bromofluorobenzene	94.3	39.1-146	%Rec	1	7/7/2023 10:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	5800	300	mg/Kg	100	7/7/2023 6:44:22 PM

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

Qualifiers:

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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-17 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:12:00 AM

 Lab ID:
 2307083-003
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result RL Qual Unit		al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/6/2023 4:35:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 4:35:56 PM
Surr: DNOP	86.7	69-147	%Rec	1	7/6/2023 4:35:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/7/2023 11:14:00 PM
Surr: BFB	97.1	15-244	%Rec	1	7/7/2023 11:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/7/2023 11:14:00 PM
Toluene	ND	0.050	mg/Kg	1	7/7/2023 11:14:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/7/2023 11:14:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/7/2023 11:14:00 PM
Surr: 4-Bromofluorobenzene	93.1	39.1-146	%Rec	1	7/7/2023 11:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	2700	150	mg/Kg	50	7/7/2023 11:07:38 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 Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-17 4'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:15:00 AM

 Lab ID:
 2307083-004
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/6/2023 4:46:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 4:46:56 PM
Surr: DNOP	86.9	69-147	%Rec	1	7/6/2023 4:46:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/7/2023 11:35:00 PM
Surr: BFB	93.8	15-244	%Rec	1	7/7/2023 11:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/7/2023 11:35:00 PM
Toluene	ND	0.048	mg/Kg	1	7/7/2023 11:35:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/7/2023 11:35:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/7/2023 11:35:00 PM
Surr: 4-Bromofluorobenzene	91.9	39.1-146	%Rec	1	7/7/2023 11:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	4900	150	mg/Kg	50	7/7/2023 5:30:17 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-21 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:16:00 AM

 Lab ID:
 2307083-005
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/6/2023 4:57:53 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 4:57:53 PM
Surr: DNOP	91.4	69-147	%Rec	1	7/6/2023 4:57:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/7/2023 11:57:00 PM
Surr: BFB	95.5	15-244	%Rec	1	7/7/2023 11:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	7/7/2023 11:57:00 PM
Toluene	ND	0.049	mg/Kg	1	7/7/2023 11:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/7/2023 11:57:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/7/2023 11:57:00 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146	%Rec	1	7/7/2023 11:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	21000	1200	mg/Kg	400	7/7/2023 7:46:06 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-21 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:20:00 AM

 Lab ID:
 2307083-006
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/6/2023 5:08:52 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 5:08:52 PM
Surr: DNOP	83.0	69-147	%Rec	1	7/6/2023 5:08:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/8/2023 12:40:00 AM
Surr: BFB	96.7	15-244	%Rec	1	7/8/2023 12:40:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/8/2023 12:40:00 AM
Toluene	ND	0.050	mg/Kg	1	7/8/2023 12:40:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/8/2023 12:40:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/8/2023 12:40:00 AM
Surr: 4-Bromofluorobenzene	91.1	39.1-146	%Rec	1	7/8/2023 12:40:00 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	6200	300	mg/Kg	100	7/7/2023 6:56:43 PM

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

Qualifiers:

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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-21 4'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:25:00 AM

 Lab ID:
 2307083-007
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: <b>DGH</b>			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/6/2023 5:19:53 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 5:19:53 PM
Surr: DNOP	87.9	69-147	%Rec	1	7/6/2023 5:19:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/8/2023 1:02:00 AM
Surr: BFB	93.8	15-244	%Rec	1	7/8/2023 1:02:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/8/2023 1:02:00 AM
Toluene	ND	0.050	mg/Kg	1	7/8/2023 1:02:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/8/2023 1:02:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/8/2023 1:02:00 AM
Surr: 4-Bromofluorobenzene	92.5	39.1-146	%Rec	1	7/8/2023 1:02:00 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	7500	300	mg/Kg	100	7/7/2023 7:09:04 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-22 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:30:00 AM

 Lab ID:
 2307083-008
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/6/2023 5:30:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/6/2023 5:30:54 PM
Surr: DNOP	85.6	69-147	%Rec	1	7/6/2023 5:30:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/8/2023 1:24:00 AM
Surr: BFB	91.0	15-244	%Rec	1	7/8/2023 1:24:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/8/2023 1:24:00 AM
Toluene	ND	0.049	mg/Kg	1	7/8/2023 1:24:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/8/2023 1:24:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	7/8/2023 1:24:00 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146	%Rec	1	7/8/2023 1:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	11000	600	mg/Kg	200	7/7/2023 7:21:25 PM

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

Qualifiers:

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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-22 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:35:00 AM

 Lab ID:
 2307083-009
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/6/2023 5:52:47 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/6/2023 5:52:47 PM
Surr: DNOP	85.1	69-147	%Rec	1	7/6/2023 5:52:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/8/2023 1:45:00 AM
Surr: BFB	95.5	15-244	%Rec	1	7/8/2023 1:45:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	7/8/2023 1:45:00 AM
Toluene	ND	0.050	mg/Kg	1	7/8/2023 1:45:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	7/8/2023 1:45:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/8/2023 1:45:00 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146	%Rec	1	7/8/2023 1:45:00 AM
EPA METHOD 300.0: ANIONS					Analyst: <b>JTT</b>
Chloride	3400	150	mg/Kg	50	7/7/2023 6:07:19 PM

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

Qualifiers:

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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-22 4'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:40:00 AM

 Lab ID:
 2307083-010
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: <b>DGH</b>			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/6/2023 6:03:53 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 6:03:53 PM
Surr: DNOP	85.8	69-147	%Rec	1	7/6/2023 6:03:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/8/2023 2:07:00 AM
Surr: BFB	99.9	15-244	%Rec	1	7/8/2023 2:07:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/8/2023 2:07:00 AM
Toluene	ND	0.049	mg/Kg	1	7/8/2023 2:07:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/8/2023 2:07:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	7/8/2023 2:07:00 AM
Surr: 4-Bromofluorobenzene	93.0	39.1-146	%Rec	1	7/8/2023 2:07:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	5100	150	mg/Kg	50	7/7/2023 6:19:40 PM

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

Qualifiers:

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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-23 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:41:00 AM

 Lab ID:
 2307083-011
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/6/2023 6:14:59 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/6/2023 6:14:59 PM
Surr: DNOP	86.3	69-147	%Rec	1	7/6/2023 6:14:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/8/2023 2:29:00 AM
Surr: BFB	98.4	15-244	%Rec	1	7/8/2023 2:29:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	7/8/2023 2:29:00 AM
Toluene	ND	0.049	mg/Kg	1	7/8/2023 2:29:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/8/2023 2:29:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/8/2023 2:29:00 AM
Surr: 4-Bromofluorobenzene	93.2	39.1-146	%Rec	1	7/8/2023 2:29:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	11000	600	mg/Kg	200	7/7/2023 7:33:45 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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-23 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:42:00 AM

 Lab ID:
 2307083-012
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/6/2023 6:26:04 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/6/2023 6:26:04 PM
Surr: DNOP	88.2	69-147	%Rec	1	7/6/2023 6:26:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/8/2023 2:51:00 AM
Surr: BFB	92.9	15-244	%Rec	1	7/8/2023 2:51:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/8/2023 2:51:00 AM
Toluene	ND	0.049	mg/Kg	1	7/8/2023 2:51:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/8/2023 2:51:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/8/2023 2:51:00 AM
Surr: 4-Bromofluorobenzene	92.5	39.1-146	%Rec	1	7/8/2023 2:51:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	5200	150	mg/Kg	50	7/7/2023 6:32:01 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 Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-24 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:45:00 AM

 Lab ID:
 2307083-013
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2023 5:06:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2023 5:06:54 PM
Surr: DNOP	94.8	69-147	%Rec	1	7/7/2023 5:06:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2023 10:59:00 AM
Surr: BFB	93.4	15-244	%Rec	1	7/10/2023 10:59:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/10/2023 10:59:00 AM
Toluene	ND	0.047	mg/Kg	1	7/10/2023 10:59:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2023 10:59:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	7/10/2023 10:59:00 AM
Surr: 4-Bromofluorobenzene	94.0	39.1-146	%Rec	1	7/10/2023 10:59:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	2800	150	mg/Kg	50	7/11/2023 10:14:12 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-24 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:48:00 AM

 Lab ID:
 2307083-014
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: <b>DGH</b>			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/7/2023 5:25:42 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 5:25:42 PM
Surr: DNOP	94.7	69-147	%Rec	1	7/7/2023 5:25:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/10/2023 12:04:00 PM
Surr: BFB	94.4	15-244	%Rec	1	7/10/2023 12:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/10/2023 12:04:00 PM
Toluene	ND	0.049	mg/Kg	1	7/10/2023 12:04:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/10/2023 12:04:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/10/2023 12:04:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	7/10/2023 12:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	2000	60	mg/Kg	20	7/7/2023 10:14:16 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-25 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:50:00 AM

 Lab ID:
 2307083-015
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (		Analyst: <b>DGH</b>			
Diesel Range Organics (DRO)	11	9.7	mg/Kg	1	7/7/2023 5:45:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 5:45:04 PM
Surr: DNOP	101	69-147	%Rec	1	7/7/2023 5:45:04 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/10/2023 1:09:00 PM
Surr: BFB	94.9	15-244	%Rec	1	7/10/2023 1:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	7/10/2023 1:09:00 PM
Toluene	ND	0.046	mg/Kg	1	7/10/2023 1:09:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/10/2023 1:09:00 PM
Xylenes, Total	ND	0.091	mg/Kg	1	7/10/2023 1:09:00 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146	%Rec	1	7/10/2023 1:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	1600	60	mg/Kg	20	7/7/2023 11:15:59 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-25 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:56:00 AM

 Lab ID:
 2307083-016
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	1900	99		mg/Kg	10	7/7/2023 3:10:07 PM
Motor Oil Range Organics (MRO)	4400	490		mg/Kg	10	7/7/2023 3:10:07 PM
Surr: DNOP	0	69-147	S	%Rec	10	7/7/2023 3:10:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/10/2023 1:31:00 PM
Surr: BFB	93.5	15-244		%Rec	1	7/10/2023 1:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/10/2023 1:31:00 PM
Toluene	ND	0.050		mg/Kg	1	7/10/2023 1:31:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/10/2023 1:31:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/10/2023 1:31:00 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	7/10/2023 1:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	2600	150		mg/Kg	50	7/11/2023 10:26:37 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-26 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 9:58:00 AM

 Lab ID:
 2307083-017
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: <b>DGH</b>			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/7/2023 6:04:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 6:04:00 PM
Surr: DNOP	93.5	69-147	%Rec	1	7/7/2023 6:04:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2023 1:53:00 PM
Surr: BFB	93.9	15-244	%Rec	1	7/10/2023 1:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	7/10/2023 1:53:00 PM
Toluene	ND	0.047	mg/Kg	1	7/10/2023 1:53:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2023 1:53:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/10/2023 1:53:00 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146	%Rec	1	7/10/2023 1:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	9000	300	mg/Kg	100	7/11/2023 11:28:38 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 Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-26 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:00:00 AM

 Lab ID:
 2307083-018
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: <b>DGH</b>				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/7/2023 6:22:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 6:22:54 PM
Surr: DNOP	92.1	69-147	%Rec	1	7/7/2023 6:22:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/10/2023 2:15:00 PM
Surr: BFB	98.4	15-244	%Rec	1	7/10/2023 2:15:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/10/2023 2:15:00 PM
Toluene	ND	0.048	mg/Kg	1	7/10/2023 2:15:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/10/2023 2:15:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/10/2023 2:15:00 PM
Surr: 4-Bromofluorobenzene	96.3	39.1-146	%Rec	1	7/10/2023 2:15:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	3500	150	mg/Kg	50	7/11/2023 10:39:01 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-27 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 12:05:00 PM

 Lab ID:
 2307083-019
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: <b>DGH</b>	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/7/2023 6:41:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/7/2023 6:41:37 PM
Surr: DNOP	94.4	69-147	%Rec	1	7/7/2023 6:41:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/10/2023 2:37:00 PM
Surr: BFB	95.4	15-244	%Rec	1	7/10/2023 2:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	7/10/2023 2:37:00 PM
Toluene	ND	0.046	mg/Kg	1	7/10/2023 2:37:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/10/2023 2:37:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	7/10/2023 2:37:00 PM
Surr: 4-Bromofluorobenzene	94.9	39.1-146	%Rec	1	7/10/2023 2:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	9800	600	mg/Kg	200	7/11/2023 11:41:02 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

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Date Reported: 7/17/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BH23-27 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 12:08:00 PM

 Lab ID:
 2307083-020
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: <b>DGH</b>	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/7/2023 7:00:14 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 7:00:14 PM
Surr: DNOP	92.3	69-147	%Rec	1	7/7/2023 7:00:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/10/2023 2:58:00 PM
Surr: BFB	96.4	15-244	%Rec	1	7/10/2023 2:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	7/10/2023 2:58:00 PM
Toluene	ND	0.049	mg/Kg	1	7/10/2023 2:58:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/10/2023 2:58:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	7/10/2023 2:58:00 PM
Surr: 4-Bromofluorobenzene	96.7	39.1-146	%Rec	1	7/10/2023 2:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	3300	150	mg/Kg	50	7/11/2023 10:51:25 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-28 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 12:10:00 PM

 Lab ID:
 2307083-021
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE				Analyst: <b>DGH</b>	
Diesel Range Organics (DRO)	12	10	mg/Kg	1	7/7/2023 7:18:51 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/7/2023 7:18:51 PM
Surr: DNOP	93.6	69-147	%Rec	1	7/7/2023 7:18:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2023 3:20:00 PM
Surr: BFB	95.2	15-244	%Rec	1	7/10/2023 3:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/10/2023 3:20:00 PM
Toluene	ND	0.047	mg/Kg	1	7/10/2023 3:20:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2023 3:20:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	7/10/2023 3:20:00 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	7/10/2023 3:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	5000	150	mg/Kg	50	7/11/2023 11:03:49 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-28 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 12:13:00 PM

 Lab ID:
 2307083-022
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: <b>DGH</b>	
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/7/2023 7:37:22 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/7/2023 7:37:22 PM
Surr: DNOP	94.1	69-147	%Rec	1	7/7/2023 7:37:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2023 3:42:00 PM
Surr: BFB	98.3	15-244	%Rec	1	7/10/2023 3:42:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	7/10/2023 3:42:00 PM
Toluene	ND	0.047	mg/Kg	1	7/10/2023 3:42:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2023 3:42:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	7/10/2023 3:42:00 PM
Surr: 4-Bromofluorobenzene	97.2	39.1-146	%Rec	1	7/10/2023 3:42:00 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	2500	150	mg/Kg	50	7/11/2023 11:16:13 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:25:00 AM

 Lab ID:
 2307083-023
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/7/2023 7:55:55 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/7/2023 7:55:55 PM
Surr: DNOP	93.4	69-147	%Rec	1	7/7/2023 7:55:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/10/2023 4:26:00 PM
Surr: BFB	98.1	15-244	%Rec	1	7/10/2023 4:26:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/10/2023 4:26:00 PM
Toluene	ND	0.050	mg/Kg	1	7/10/2023 4:26:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/10/2023 4:26:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	7/10/2023 4:26:00 PM
Surr: 4-Bromofluorobenzene	97.3	39.1-146	%Rec	1	7/10/2023 4:26:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	4900	150	mg/Kg	50	7/14/2023 2:05:34 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 4'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:30:00 AM

 Lab ID:
 2307083-024
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/7/2023 8:32:42 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2023 8:32:42 PM
Surr: DNOP	93.5	69-147	%Rec	1	7/7/2023 8:32:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/10/2023 4:48:00 PM
Surr: BFB	93.5	15-244	%Rec	1	7/10/2023 4:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.024	mg/Kg	1	7/10/2023 4:48:00 PM
Toluene	ND	0.049	mg/Kg	1	7/10/2023 4:48:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/10/2023 4:48:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/10/2023 4:48:00 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146	%Rec	1	7/10/2023 4:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	5900	300	mg/Kg	100	7/14/2023 2:17:59 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-03 6'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:35:00 AM

 Lab ID:
 2307083-025
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE				Analyst: <b>DGH</b>	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2023 8:51:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2023 8:51:10 PM
Surr: DNOP	94.0	69-147	%Rec	1	7/7/2023 8:51:10 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/10/2023 5:10:00 PM
Surr: BFB	97.1	15-244	%Rec	1	7/10/2023 5:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	7/10/2023 5:10:00 PM
Toluene	ND	0.046	mg/Kg	1	7/10/2023 5:10:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	7/10/2023 5:10:00 PM
Xylenes, Total	ND	0.091	mg/Kg	1	7/10/2023 5:10:00 PM
Surr: 4-Bromofluorobenzene	96.8	39.1-146	%Rec	1	7/10/2023 5:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	8800	600	mg/Kg	200	7/14/2023 2:30:24 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-04 0'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:10:00 AM

 Lab ID:
 2307083-026
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/7/2023 9:09:34 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/7/2023 9:09:34 PM
Surr: DNOP	95.2	69-147	%Rec	1	7/7/2023 9:09:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/10/2023 5:32:00 PM
Surr: BFB	99.7	15-244	%Rec	1	7/10/2023 5:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	7/10/2023 5:32:00 PM
Toluene	ND	0.048	mg/Kg	1	7/10/2023 5:32:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/10/2023 5:32:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/10/2023 5:32:00 PM
Surr: 4-Bromofluorobenzene	96.5	39.1-146	%Rec	1	7/10/2023 5:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	14000	600	mg/Kg	200	7/14/2023 2:42:48 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-04 2'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:15:00 AM

 Lab ID:
 2307083-027
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: <b>DGH</b>	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/7/2023 9:27:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/7/2023 9:27:54 PM
Surr: DNOP	87.0	69-147	%Rec	1	7/7/2023 9:27:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/10/2023 5:54:00 PM
Surr: BFB	96.5	15-244	%Rec	1	7/10/2023 5:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: <b>KMN</b>
Benzene	ND	0.025	mg/Kg	1	7/10/2023 5:54:00 PM
Toluene	ND	0.049	mg/Kg	1	7/10/2023 5:54:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/10/2023 5:54:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	7/10/2023 5:54:00 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146	%Rec	1	7/10/2023 5:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	3700	150	mg/Kg	50	7/14/2023 2:55:13 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

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Date Reported: 7/17/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG23-04 4'

 Project:
 Spud 16 State 010
 Collection Date: 6/30/2023 10:20:00 AM

 Lab ID:
 2307083-028
 Matrix: SOIL
 Received Date: 7/6/2023 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/7/2023 9:46:19 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/7/2023 9:46:19 PM
Surr: DNOP	91.8	69-147	%Rec	1	7/7/2023 9:46:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/10/2023 6:16:00 PM
Surr: BFB	97.3	15-244	%Rec	1	7/10/2023 6:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.023	mg/Kg	1	7/10/2023 6:16:00 PM
Toluene	ND	0.047	mg/Kg	1	7/10/2023 6:16:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/10/2023 6:16:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	7/10/2023 6:16:00 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146	%Rec	1	7/10/2023 6:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	3200	150	mg/Kg	50	7/14/2023 3:07:37 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

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#### Hall Environmental Analysis Laboratory, Inc.

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WO#: **2307083 17-Jul-23** 

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: MB-76040 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 76040 RunNo: 98000

1.5

Prep Date: 7/6/2023 Analysis Date: 7/6/2023 SeqNo: 3565793 Units: mg/Kg

15.00

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

Chloride ND 1.5

 Sample ID:
 LCS-76040
 SampType:
 LCS
 TestCode:
 EPA Method 300.0:
 Anions

 Client ID:
 LCSS
 Batch ID:
 76040
 RunNo:
 98000

 Prep Date:
 7/6/2023
 Analysis Date:
 7/6/2023
 SeqNo:
 3565794
 Units:
 mg/Kg

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

 Sample ID:
 MB-76059
 SampType:
 MBLK
 TestCode:
 EPA Method 300.0:
 Anions

 Client ID:
 PBS
 Batch ID:
 76059
 RunNo:
 98004

 Prep Date:
 7/7/2023
 Analysis Date:
 7/7/2023
 SeqNo:
 3566417
 Units:
 mg/Kg

90.7

110

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride ND 1.5

Sample ID: LCS-76059 SampType: LCS TestCode: EPA Method 300.0: Anions

| Client ID: LCSS | Batch ID: 76059 | RunNo: 98004 |
| Prep Date: 7/7/2023 | Analysis Date: 7/7/2023 | SeqNo: 3566418 | Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 90 110

#### Qualifiers:

Chloride

- 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

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2307083** 

17-Jul-23

Client:	Devon Energy
Project:	Spud 16 State 010

Sample ID: 2307083-00	1AMS Samp	Туре: МЅ	•	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH23-16 2'	Bato	th ID: 760	032	F	RunNo: 97	7976				
Prep Date: 7/6/2023	Analysis I	Date: <b>7/</b>	6/2023	5	SeqNo: 3	564785	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.3	46.73	0	82.7	54.2	135			
Surr: DNOP	4.3		4.673		92.0	69	147			
Sample ID: 2307083-00	1AMSD Samp	Туре: МЅ	SD	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH23-16 2'	Bato	h ID: 760	032	F	RunNo: 97	7976				
Prep Date: 7/6/2023	Analysis I	Date: <b>7/</b>	6/2023	S	SeqNo: 3	564786	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.3	46.51	0	83.3	54.2	135	0.271	29.2	
Surr: DNOP	4.2		4.651		89.9	69	147	0	0	
Sample ID: LCS-76032	Samp	Туре: <b>LC</b>	S	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Bato	h ID: 760	032	F	RunNo: 97	7976				
Prep Date: 7/6/2023	Analysis I	Date: <b>7/</b>	6/2023	S	SeqNo: 3	564808	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.6	61.9	130			
Surr: DNOP	3.9		5.000		77.1	69	147			
Sample ID: <b>MB-76032</b>	Samp	Туре: МЕ	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Bato	h ID: 760	032	F	RunNo: 97	7976				
Prep Date: 7/6/2023	Analysis I	Date: <b>7/</b>	6/2023	S	SeqNo: 3	564811	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 (MF	RO) ND	50								
Surr: DNOP	8.4		10.00		83.5	69	147			
Sample ID: MB-76038	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Bato	h ID: 760	038	F	RunNo: 98	3033				
Prep Date: 7/6/2023	Analysis I	Date: <b>7/</b>	7/2023	5	SeqNo: 3	567169	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 (MF	RO) ND	50								
Surr: DNOP	9.7		10.00		97.2	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

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2307083** 

17-Jul-23

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: LCS-76038 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 76038 RunNo: 98033 LCSS SeqNo: 3567170 Prep Date: 7/6/2023 Analysis Date: 7/7/2023 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 50.00 93.1 61.9 130 Surr: DNOP 4.6 5.000 92.7 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

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2307083** 

17-Jul-23

Client:	Devon Energy
Project:	Spud 16 State 010

Project:	Spud 16 S	state 010									
Sample ID:	lcs-76025	SampTy	/pe: LC	s	Tes	tCode: EI	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: <b>760</b>	)25	F	RunNo: <b>97992</b>					
Prep Date:	7/6/2023	Analysis Da	ate: <b>7/</b> 7	7/2023	8	SeqNo: 3	565537	Units: mg/k	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (GRO)	21	5.0	25.00	0	84.8	70	130			
Surr: BFB		2000		1000		199	15	244			
Sample ID:	mb-76025	SampTy	/pe: <b>MB</b>	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: <b>760</b>	)25	F	RunNo: 9	7992				
Prep Date:	7/6/2023	Analysis Da	ate: <b>7/</b> 7	7/2023	S	SeqNo: 3	565538	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	ND 950	5.0	1000		94.6	15	244			
Sample ID:		SampTy	•					8015D: Gaso	line Range		
	LCSS		ID: <b>760</b>			RunNo: 9		Ll-Sc. n			
Prep Date:	7/6/2023	Analysis Da	ate: 7/			SeqNo: 3		Units: mg/k	(g		
Analyte	O (CDO)	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	Organics (GRO)	22 2100	5.0	25.00 1000	0	88.2 206	70 15	130 244			
0					T	10 - d - E		20150 0			
Sample ID:		SampTy	/ре: <b>м.н</b> ID: <b>760</b>					8015D: Gaso	line Range		
Client ID: Prep Date:	PBS 7/6/2023	Analysis Da				RunNo: <b>9</b> SeqNo: <b>3</b>		Units: mg/k	(a		
	170/2023	•				·		J	•	DDDI ''	01
Analyte Gasoline Range	Organics (GRO)	Result ND	PQL 5.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	organios (orto)	960	0.0	1000		95.7	15	244			
Sample ID:	2307083-013ams	SampTy	/pe: <b>MS</b>	}	Tes	tCode: EI	PA Method	8015D: Gaso	line Range		
Client ID:	BH23-24 0'	Batch	ID: <b>760</b>	031	F	RunNo: 9	8074				
Prep Date:	7/6/2023	Analysis Da	ate: <b>7/</b>	10/2023	5	SeqNo: 3	568740	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (GRO)	20	4.7	23.61	0	84.2	70	130			
Surr: BFB		1900		944.3		200	15	244			
Sample ID:	2307083-013amsd	SampTy	/pe: <b>MS</b>	SD.	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID:	BH23-24 0'	Batch	ID: <b>760</b>	31	F	RunNo: 9	8074				
Prep Date:	7/6/2023	Analysis Da	ate: 7/	10/2023	S	SeqNo: 3	568741	Units: mg/k	(g		
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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2307083

17-Jul-23

**Client:** Devon Energy Spud 16 State 010 **Project:** 

Sample ID: 2307083-013amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH23-24 0' RunNo: 98074 Batch ID: 76031 SeqNo: 3568741 Prep Date: 7/6/2023 Analysis Date: 7/10/2023 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result

Gasoline Range Organics (GRO) 19 4.7 23.63 81.2 70 130 3.53 20 Surr: BFB 1900 945.2 200 15 244 0 0

#### 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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2307083** 

17-Jul-23

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: Ics-76025	Samp <sup>1</sup>	Гуре: <b>LC</b> :	S	Tes	tCode: El	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batc	Batch ID: 76025			RunNo: <b>97992</b>					
Prep Date: <b>7/6/2023</b>	Analysis [	Date: <b>7/</b> 7	7/2023	5	SeqNo: 3	565540	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.6	70	130			
Toluene	0.90	0.050	1.000	0	89.6	70	130			
Ethylbenzene	0.91	0.050	1.000	0	90.5	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.5	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	39.1	146			

Sample ID: <b>mb-76025</b>	SampT	Гуре: <b>МВ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	h ID: <b>760</b>	)25	F	RunNo: 97	7992				
Prep Date: <b>7/6/2023</b>	Analysis D	Date: <b>7/</b> 7	7/2023	5	SeqNo: 3	565541	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		93.1	39.1	146			

Sample ID: Ics-76031	Samp	Type: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: <b>760</b>	)31	F	RunNo: 98	3074				
Prep Date: 7/6/2023	Analysis [	Date: <b>7/</b>	10/2023	5	SeqNo: 3	568778	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.4	70	130			
Toluene	0.89	0.050	1.000	0	89.4	70	130			
Ethylbenzene	0.90	0.050	1.000	0	90.1	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.7	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.5	39.1	146			

Sample ID: <b>mb-76031</b>	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: <b>760</b>	)31	F	RunNo: 98	3074				
Prep Date: 7/6/2023	Analysis D	Date: 7/	10/2023	5	SeqNo: 3	568779	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	0.94		1.000		94.4	39.1	146			

#### Qualifiers:

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

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2307083** 

17-Jul-23

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: 2307083-014ams	Samp	Гуре: МЅ	1	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BH23-24 2'	Batch ID: 76031			F	RunNo: 98	3074				
Prep Date: 7/6/2023	Analysis [	Date: <b>7/</b>	10/2023	5	SeqNo: 3	568782	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9862	0	81.1	70	130			
Toluene	0.84	0.049	0.9862	0	84.7	70	130			
Ethylbenzene	0.85	0.049	0.9862	0	86.6	70	130			
Xylenes, Total	2.6	0.099	2.959	0	86.2	70	130			
Surr: 4-Bromofluorobenzene	0.93		0.9862		94.3	39.1	146			

Sample ID: 2307083-014ams	Samp	Туре: МЅ	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH23-24 2'	Bato	Batch ID: <b>76031</b> RunNo: <b>98074</b>								
Prep Date: 7/6/2023	Analysis I	Date: <b>7/</b>	10/2023	5	SeqNo: 3	568783	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9862	0	81.1	70	130	0.00123	20	
Toluene	0.84	0.049	0.9862	0	85.6	70	130	0.995	20	
Ethylbenzene	0.85	0.049	0.9862	0	86.6	70	130	0.0150	20	
Xylenes, Total	2.6	0.099	2.959	0	86.8	70	130	0.697	20	
Surr: 4-Bromofluorobenzene	0.99		0.9862		100	39.1	146	0	0	

#### Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Released to Imaging: 4/22/2025 10:00:17 AM

Client Name: Devon Energy Work Order Num	ber: 2307083		RcptNo:	1
Received By: Tracy Casarrubias 7/6/2023 7:35:00 A	ιM			
Completed By: Tracy Casarrubias 7/6/2023 8:40:00 A	M =			
Reviewed By: 7n 7/6/23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?	Courier			
<u>Log In</u>				
Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?	Yes	No 🔽	NA 🗆	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
0. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
Does paperwork match bottle labels?  (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	bottles checked for pH: (\$2 or >	12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted <b></b>	
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌	1 4.	00/0//
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by: 5	M 0/1061
pecial Handling (if applicable)			1	
15. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: Date	r	and the same and		
By Whom: Via:	eMail P	hone  Fax	☐ In Person	
Regarding:		District Control of the Control of t		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By	
1	5.8	Good	Yes	Morty			

Chain-of-Custody Record	Turn-Around Time:	
Client: Devan / Vertex	Standard Rush 5 Day	HALL ENVIRONMENTAL ANALYSIS LABORATORY
	Project Name:	The man is the state of the second state of th
Mailing Address: On Gle	Project Name:  Spud 16 State #010  49	www.hallenvironmental.com
	IProject #'	01 Hawkins NE - Albuquerque, NM 87109
Phone #:	23E-02857	el. 505-345-3975 Fax 505-345-4107  Analysis Request
email or Fax#:	Project Manager:	
QA/QC Package:	021 AR	B's A', S(
☐ Standard ☐ Level 4 (Full Validation)		.1) 8270SIMS 40 <sub>2</sub> , PO <sub>4</sub> , S
Accreditation:   Az Compliance		
☐ NELAC ☐ Other	On Ice: Yes I No morty I H	1504 100 or 1504 100A)
	# of Coolers: U.0-0.2= 5.8 (°C)	Pesticides/8 (Method 504 by 8310 or A 8 Metals Br, NO <sub>3</sub> , N (VOA) (Semi-VOA) Coliform (Pr
	801	Pesti (Meth (Meth , Br, , Br, (Sem Colife
Date Time Matrix Sample Name	# of Coolers:  Cooler Temp(including CF): U 0 -0.2 = 5.8 (°C)  Container Preservative HEAL No. Type and # Type  Preservative ABL No.  Type 2307083	8081 Pesticides/808; EDB (Method 504.1) PAHs by 8310 or 827 RCRA 8 Metals C) F, Br, NO <sub>3</sub> , NO <sub>2</sub> 8260 (VOA) Total Coliform (Prese
930/22 9:05 Soil BH23-16 2'	Yozjar Ice 001 VV	
9:10 BH23-16 4'	002	1 2 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
9:12 BH23-17 2'	003	
9:15 BH2-17 4'	004	
9:16 BH23-21 0'	005	
9:20 31423-21 2'	006	and the selection and the selection of t
9-25 BH23-21 4	007	
9:30 BH23-22 0'	00%	
9:35 RH23-22 2	009	
9:40 BH23-27 4	010	
9:41 BH23-23 0'	011	
9:42 BH25-23 2-	012	300 200 200 200 200 200 200 200 200 200
Date: Time: Relinquished by:	Received by: Via: Date Time Remarks	Direct 1511 to : Devan W/0 #: 21165742
1 10	May 1/4/23 836	MIRCH WILL IN BELLET ST THE CHIES 1 42
Date: Time: Refinquished by:	Received by: Via: Court Date Time	
16/23 1900 acum	76/23 7:35 C.C.	
Released to Timaging: 4/22/2023 Pola Fining Angital may be sub-	ontracted to other accredited laboratories. This serves as notice of this possibility.	Any sub-contracted data/will be clearly notated on the analytical report.

Chain-of-Custody Record  Client: Devon / Vertex	Turn-Around Time:  Standard Rush 5 MM  Project Name:  Special of State # 010  Project #:	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com						
Mailing Address: On file	Spud 16 State #010	4901 Hawkins NE - Albuquerque, NM 87109						
	23E- 02857	Tel. 505-345-3975 Fax 505-345-4107  Analysis Request						
Phone #:	Project Manager:	SO <sub>4</sub> (SO <sub>3</sub> (SO <sub>4</sub> (SO						
email or Fax#:  QA/QC Package:		s (8021) O / MR( O / M						
☐ Standard ☐ Level 4 (Full Validation)	Kent stallings	7 DRO / MRO 3082 PCB's 3082 PCB's 4.1) 8270SIMS NO <sub>2</sub> , PO <sub>4</sub> , SC NO <sub>2</sub> , PO <sub>4</sub> , SC						
Accreditation:   Az Compliance	Sampler: SY Sampler: No books	7 TMB's 00 / DRC 00 / DRC 04.1) or 8270 or 8270 (Presen						
☐ NELAC ☐ Other	# of Coolers:	MTBE / 15D(GR esticides of wethod 5 wy 8310 or well should be with the world should be with the						
1 255 (1)507	Cooler Temp(including CF): 6.0 - 0.2 = 58 (°C)	/ M Meth Meth Meth Meth Meth Meth Meth Me						
Cample Name	Container Preservative HEAL No. Type and # Type 7307083	RIEÀ / MTBE / TMB's (8021)  TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CL,F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) Total Coliform (Present/Absent)						
Date Time Matrix Sample Name  6/20/29:45 Sci BH73-24 O	Yuzier Ice 013	7 7 7						
6/30/23 9:45 Sil BH23-24 0	102361 200 014							
9:50 BHZZ-25 0'	015							
9:56 RH25 25 2	016							
9:58 BH23-26 0	017							
10.00 BH23-76 D	018							
12:05 3 423-27 0'	019							
12:08 BH23-27 2	020							
12:10 3 H23-28 0°	021							
2:B BH23-28 2	027	<del>                                     </del>						
10:25 BG 22-03 2	023	<del>                                     </del>						
0 30   8623-03 4   Date: Time: Relignuished by:	Received by: Via: Date Time	Remarks: Direct bill to Deven w/0 # 21165742						
Date: Time: Relinquished by: 75/23 8:56 Lgw Mc44	annum 75/13 856	- Price Brillian Com						
Date: Time: Relinquished by:	Received by: Via: course Date Time	c.c. smccacty o vertex ca eg2.f3						
Released to The same same same same same same same sam	uncontracted to other accredited laboratories. This serves as notice of	this possibility. Any sub-contracted data will be clearly notated on the analytical report.						

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL				
Client: Devon / Vertex	Project Name:  Spud 16 State # 010  Project #:	ANALYSIS LABORATORY				
Mailing Address:	S DI O I HOID	www.hallenvironmental.com				
Mailing Address: On the	Brojer #:	4901 Hawkins NE - Albuquerque, NM 87109				
1	Project #: 23E-02857	Tel. 505-345-3975 Fax 505-345-4107  Analysis Request				
Phone #:	Project Manager					
email or Fax#:  QA/QC Package:	Project Manager:	021) (IRO) (IRO) (S S SO <sub>4</sub> (S				
☐ Standard ☐ Level 4 (Full Validation)	Kent Stallings	RIEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals C, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)				
Accreditation:   Az Compliance	Sampler: SM	TMB' 1 NO2, NO2, NO2, NO3, NO3, NO3, NO3, NO3, NO3, NO3, NO3				
□ NELAC □ Other	On Ice: Yes No marky	E / .				
□ EDD (Type)	# of Coolers: \ Cooler Temp(Including CF): \( \( \lambda \). \( \l	MTBE / 5D(GRC sticides, sticides, sticides, r, NO <sub>3</sub> , OA)				
		(VOV) (Serr Coliff				
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 2307063	RIEX / MTBE / TMB TPH:8015D(GRO / DR 8081 Pesticides/8082 EDB (Method 504.1) PAHs by 8310 or 827( RCRA 8 Metals CA, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Preser				
(1,1,1,2,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1						
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Released to Things Ing. mp/22 21/20 its of 10 Hab En viron in ental may be sub	contracted to other accredited laboratories. This serves as notice of this	is possibility. Any sub-contracted data will be clearly notated on the analytical report.				



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

June 05, 2023

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

**FAX** 

RE: Spud 16 State 010 OrderNo.: 2305C87

#### Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/25/2023 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

**CLIENT:** Devon Energy

## **Analytical Report**

Lab Order **2305C87**Date Reported: **6/5/2023** 

#### Hall Environmental Analysis Laboratory, Inc.

**Client Sample ID:** BG 23-01 0.0'

 Project:
 Spud 16 State 010
 Collection Date: 5/23/2023 10:20:00 AM

 Lab ID:
 2305C87-001
 Matrix: SOIL
 Received Date: 5/25/2023 9:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/27/2023 11:02:39 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/27/2023 11:02:39 AM
Surr: DNOP	71.0	69-147	%Rec	1	5/27/2023 11:02:39 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	18000	1500	mg/Kg	500	6/2/2023 12:35:16 AM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	5/27/2023 3:17:57 AM
Toluene	ND	0.050	mg/Kg	1	5/27/2023 3:17:57 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2023 3:17:57 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2023 3:17:57 AM
Surr: Dibromofluoromethane	116	73-145	%Rec	1	5/27/2023 3:17:57 AM
Surr: 1,2-Dichloroethane-d4	111	64.8-147	%Rec	1	5/27/2023 3:17:57 AM
Surr: Toluene-d8	97.6	70-130	%Rec	1	5/27/2023 3:17:57 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2023 3:17:57 AM
Surr: BFB	106	70-130	%Rec	1	5/27/2023 3:17:57 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 1 of 8

## **Analytical Report**

Lab Order 2305C87

Date Reported: 6/5/2023

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BG 23-02 0.0'

 Project:
 Spud 16 State 010
 Collection Date: 5/23/2023 10:35:00 AM

 Lab ID:
 2305C87-002
 Matrix: SOIL
 Received Date: 5/25/2023 9:35:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	Analyst: PRD				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2023 11:26:47 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/27/2023 11:26:47 AM
Surr: DNOP	70.6	69-147	%Rec	1	5/27/2023 11:26:47 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	12000	600	mg/Kg	200	6/2/2023 12:47:37 AM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/27/2023 4:47:33 AM
Toluene	ND	0.048	mg/Kg	1	5/27/2023 4:47:33 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2023 4:47:33 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2023 4:47:33 AM
Surr: Dibromofluoromethane	115	73-145	%Rec	1	5/27/2023 4:47:33 AM
Surr: 1,2-Dichloroethane-d4	107	64.8-147	%Rec	1	5/27/2023 4:47:33 AM
Surr: Toluene-d8	96.9	70-130	%Rec	1	5/27/2023 4:47:33 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2023 4:47:33 AM
Surr: BFB	107	70-130	%Rec	1	5/27/2023 4:47:33 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

e pH Not In Range ting Limit Page 2 of 8

# **Analytical Report**

Lab Order 2305C87 Date Reported: 6/5/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy Client Sample ID: BG 23-03 0.0'

Spud 16 State 010 **Project:** Collection Date: 5/23/2023 10:45:00 AM 2305C87-003 Lab ID: Matrix: SOIL Received Date: 5/25/2023 9:35:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/27/2023 11:50:55 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/27/2023 11:50:55 AM
Surr: DNOP	71.3	69-147	%Rec	1	5/27/2023 11:50:55 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	17000	600	mg/Kg	200	6/2/2023 12:59:58 AM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	5/27/2023 5:17:16 AM
Toluene	ND	0.050	mg/Kg	1	5/27/2023 5:17:16 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2023 5:17:16 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2023 5:17:16 AM
Surr: Dibromofluoromethane	116	73-145	%Rec	1	5/27/2023 5:17:16 AM
Surr: 1,2-Dichloroethane-d4	109	64.8-147	%Rec	1	5/27/2023 5:17:16 AM
Surr: Toluene-d8	95.9	70-130	%Rec	1	5/27/2023 5:17:16 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2023 5:17:16 AM
Surr: BFB	105	70-130	%Rec	1	5/27/2023 5:17:16 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
- 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 3 of 8

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2305C87** *05-Jun-23* 

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: MB-75263 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75263 RunNo: 97118

Prep Date: 5/31/2023 Analysis Date: 5/31/2023 SeqNo: 3526736 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75263 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75263 RunNo: 97118

Prep Date: 5/31/2023 Analysis Date: 5/31/2023 SeqNo: 3526737 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 4 of 8

# Hall Environmental Analysis Laboratory, Inc.

2305C87 05-Jun-23

WO#:

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: MB-75212 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 75212 RunNo: 97076

Prep Date: 5/26/2023 Analysis Date: 5/26/2023 SeqNo: 3523780 Units: mg/Kg

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

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

Surr: DNOP 8.8 10.00 87.8 69 147

Sample ID: LCS-75212 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 75212 RunNo: 97076

3.8

Prep Date: 5/26/2023 Analysis Date: 5/27/2023 SeqNo: 3523781 Units: mg/Kg

5.000

SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 39 10 50.00 78.0 61.9 130

76.5

69

147

## 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
- 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 8

# Hall Environmental Analysis Laboratory, Inc.

WO#: 2305C87

05-Jun-23

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: 2305c87-001ams	Sampl	уре: <b>М</b> S	3	Tes	tCode: El	PA Method	8260B: Volat	iles		
Client ID: BG 23-01 0.0'	Batcl	h ID: <b>75</b> 1	185	F	RunNo: 9	7079				
Prep Date: 5/25/2023	Analysis D	Date: <b>5/</b> 2	27/2023	9	SeqNo: 3	524156	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9940	0	111	60.8	141			
Toluene	1.0	0.050	0.9940	0	102	15	261			
Ethylbenzene	1.0	0.050	0.9940	0	105	70	130			
Xylenes, Total	3.2	0.099	2.982	0	107	70	130			
Surr: Dibromofluoromethane	0.56		0.4970		112	73	145			
Surr: 1,2-Dichloroethane-d4	0.54		0.4970		109	64.8	147			
Surr: Toluene-d8	0.47		0.4970		94.2	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4970		98.5	62.1	144			

Sample ID: 2305c87-001ams	sd Samp1	Type: MS	SD	Tes	tCode: El	PA Method	8260B: Volat	iles		
Client ID: BG 23-01 0.0'	Batc	h ID: <b>75</b>	185	F	RunNo: 9	7079				
Prep Date: 5/25/2023	Analysis [	Date: <b>5/</b>	27/2023	9	SeqNo: 3	524157	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9852	0	105	60.8	141	6.28	20	
Toluene	0.97	0.049	0.9852	0	98.1	15	261	5.28	20	
Ethylbenzene	0.97	0.049	0.9852	0	98.7	70	130	7.40	0	
Xylenes, Total	3.0	0.099	2.956	0	102	70	130	5.47	0	
Surr: Dibromofluoromethane	0.56		0.4926		114	73	145	0	0	
Surr: 1,2-Dichloroethane-d4	0.53		0.4926		107	64.8	147	0	0	
Surr: Toluene-d8	0.46		0.4926		92.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4926		98.6	62.1	144	0	0	

Sample ID: Ics-75185	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8260B: Volat	iles		
Client ID: LCSS	Batcl	n ID: <b>75</b> ′	185	F	RunNo: 9	7079				
Prep Date: 5/25/2023	Analysis D	Date: <b>5/</b>	26/2023	9	SeqNo: 3	524160	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	70	130			
Toluene	0.93	0.050	1.000	0	93.3	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		113	73	145			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	64.8	147			
Surr: Toluene-d8	0.48		0.5000		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	62.1	144			

Sample ID: mb-75185 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Client ID: PBS Batch ID: 75185 RunNo: 97079 Prep Date: 5/25/2023 Analysis Date: 5/26/2023 SeqNo: 3524161 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL 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 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 6 of 8

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2305C87** 

05-Jun-23

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: mb-75185 SampType: MBLK TestCode: EPA Method 8260B: Volatiles PBS Client ID: Batch ID: 75185 RunNo: 97079 Prep Date: 5/25/2023 Analysis Date: 5/26/2023 SeqNo: 3524161 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 73 Surr: Dibromofluoromethane 0.58 0.5000 117 145 Surr: 1.2-Dichloroethane-d4 0.55 0.5000 110 64.8 147 Surr: Toluene-d8 0.47 0.5000 93.6 70 130 Surr: 4-Bromofluorobenzene 0.49 0.5000 98.8 62.1 144

## 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 8

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2305C87** 

05-Jun-23

Client: Devon Energy
Project: Spud 16 State 010

Sample ID: Ics-75185 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 75185 RunNo: 97079 Prep Date: 5/25/2023 Analysis Date: 5/26/2023 SeqNo: 3524133 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

 Gasoline Range Organics (GRO)
 20
 5.0
 25.00
 0
 81.5
 70
 130

 Surr: BFB
 520
 500.0
 105
 70
 130

Sample ID: mb-75185 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 75185 RunNo: 97079

Prep Date: 5/25/2023 Analysis Date: 5/26/2023 SeqNo: 3524134 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 520 500.0 103 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
- 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 8



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: 4/22/2025 10:00:17 AM

Client Name:	Devon Energy	Work Order Num	ber: 2305C87		RcptNo:	1
Received By:	Ivon Daine	E/2E/2022 0:2E:00	A.M.	Guaray.		
•	Juan Rojas	5/25/2023 9:35:00		, 2		
Completed By:	Tracy Casarrubias	5/25/2023 10:07:19	3 AM			
Reviewed By:	JA 5-25-23					
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an atten	npt made to cool the sampl	es?	Yes 🗹	No 🗌	na 🗌	
4. Were all sam	ples received at a temperat	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient san	nple volume for indicated te	st(s)?	Yes 🗹	No 🗆		
7. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
8. Was preserva	ative 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 containers received bi	roken?	Yes	No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custody)	ı	Yes 🗹	No 🗌	bottles checked for pH: (<2 or >	12 unless noted)
	correctly identified on Chair		Yes 🗸	No 🗌	Adjusted?	
13. Is it clear wha	t analyses were requested	?	Yes 🗹	No 🗌		1 - 1 -
	ing times able to be met? ustomer for authorization.)		Yes 🗹	No 🗆	Checked by: J	5/25/23
	ling (if applicable)					
	otified of all discrepancies w	vith this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	eMail 1	Phone 🗌 Fax	☐ In Person	
Regard	ling: Mailing					
Client I	nstructions: Milling addres	s, phone number and Em	ail are missing on	COC - TMC 5/2	5/23	
16. Additional re	marks: NO Pelingu	ished By info fi	em dient	on COC. N	192123	
17. Cooler Info	•			55507		
Cooler No	The state of the s	Seal Intact   Seal No	Seal Date	Signed By		
1	1.7 Good	Yes Morty		· · · · · · · · · · · · · · · · · · ·		

C	hain	of-Cu	stody Reco		Turn-Around							н	ΔI Ι	F	NV	TR	201	NM	EN	TA	L
Client:		Deva	2n		Standard Project Name Sprol Project #: 2	Rush	500U					Al	A	LYS	SIS	S L		BOF	TAS		
Mailing	Address	:			Sprol	16 skele	75010			490	)1 H							VI 871	09		
					Project #: 2	3E-028	57			Te	l. 50	5-345	-				-	4107			
Phone 7	<b>#</b> :													WALKS IN	ysis	Req	uest				
email o	r Fax#:				Project Mana	iger:	1/100	l l	2	8	,			SO4			ent)		Si e		
QA/QC I ☐ Stan	Package: dard		☐ Level 4 (Full Val	idation)		Kent Ste	ing		TMB's (8021)	/ DRO / MRO)	PCB's		SZ/ USIINIS	PO4,			nt/Abs	7,5			
Accredi		☐ Az Co☐ Other	mpliance		Sampler: 5	M Yes	□ No	Anny source for	TME	0 / DF	,/8082		Ξl	NO <sub>2</sub> ,		æ	Prese			3,871	
	(Type)	- Other		-	# of Coolers:			,79	핆	(GR	ge	5 b		် ငို		9	E			10	
					Cooler Temp	Preservative	7-00(-7 HEAL	(°C)	BIEN MTBE	TPH 8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHS By 8310 C	CIJF, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	i j			
		Matrix	Sample Name	- 0	Type and #	Type	2305c	5+	<u>m</u>	U	<u> </u>	ш (	7   6	10	80	8	-		+	+-	$\vdash\vdash\vdash$
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Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 412420

# **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412420
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

## QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317746199
Incident Name	NAPP2317746199 LAGUNA SALADO 22 FEDERAL #004H @ 30-015-36461
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
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	06/26/2023
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

faterial(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 7 BBL   Recovered 0 BBL   Lost: 7 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)	Mist was seen coming from flow line off pad. A Devon flowline coming from the Laguna Salado 22-4 had a leak and was spraying liquid. The unit was shut off and the line was isolated. Estimated that 7 bbls of produced water released offsite. Recovered volumes are not available at the time of this notification.

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 412420

QUESTIONS (continued
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Operator: DEVON ENERGY PRODUCTION COMPANY, LP	OGRID: 6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412420
	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.
F	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
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	recovered volumes are not available as of this notification
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o 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 ases 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: 12/16/2024

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 412420

**QUESTIONS** (continued)

## 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

B 11 41 B1		
Remediation Plan		
Please answer all the questions the	at 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 p	lan approval with this submission	Yes
Attach a comprehensive report dem	nonstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	extents of contamination been fully delineated	Yes
Was this release entirely co	ntained within a lined containment area	No
Soil Contamination Sampling:	(Provide the highest observable value for each, in mil	ligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 Cl B)	67000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	MAC unless the site characterization report includes completed lines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will	the remediation commence	03/01/2025
On what date will (or did) the	e final sampling or liner inspection occur	04/01/2025
On what date will (or was) the	ne remediation complete(d)	04/15/2025
What is the estimated surface	ce area (in square feet) that will be reclaimed	3024
What is the estimated volum	e (in cubic yards) that will be reclaimed	112
What is the estimated surface	ce area (in square feet) that will be remediated	3024
What is the estimated volum	e (in cubic yards) that will be remediated	112
These estimated dates and measure	ements are recognized to be the best guess or calculation at the	e time of submission and may (be) change(d) over time as more remediation efforts are completed.
		ccordance 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.

General Information Phone: (505) 629-6116

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

# 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 412420

**QUESTIONS** (continued)

ı	Operator:	OGRID:
ı	DEVON ENERGY PRODUCTION COMPANY, LP	6137
ı	333 West Sheridan Ave.	Action Number:
ı	Oklahoma City, OK 73102	412420
ı		Action Type:
ı		[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.		
his remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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
Email: jim.raley@dvn.com
Date: 12/16/2024

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

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 412420

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412420
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# QUESTIONS

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

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# 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 412420

**QUESTIONS** (continued)

Operator:	OGRID:	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	412420	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Sampling Event Information		
Last sampling notification (C-141N) recorded	{Unavailable.}	
Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.	
Requesting a remediation closure approval with this submission	No	

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

CONDITIONS

Action 412420

## **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	412420
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

## CONDITIONS

Created I	4	Condition Date
rhamle	A Remediation Plan has already been approved for (Incident Number NAPP2317746199). Please review the conditions of approval (App ID: 442520) that were sent on March 20th, 2025. These conditions of approval can also be viewed on the OCD Permitting Incident Page under Incident Events.	4/22/2025