State of New Mexico Energy Minerals and Natural Resources

> **Oil Conservation Division** 1220 South St. Francis Dr.

Final Report

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5	Sa	inta Fe	e, NM 875	505				
			Rele	ase Notific	atior	and Co	orrective A	ction			
						OPERA	TOR		🛛 Initi	al Report	Final Report
Name of Co	ompany D	evon Energy	y Product	ion Company		Contact M	ark Kramer, Dri	lling S	upervisor		
Address 64							No. 405-552-78	20			
Facility Na	me Arabia	in 30-19 Fed	Com 2H			Facility Ty	pe Oil				
Surface Owner Federal Mineral Owner					Owner	Federal			API No	30-025-4377	73
				LOCA	TIO	N OF REI	LEASE				
1 8			A/South Line Feet from the East/West Line			County					
F	30	258	32E	2486		North	1594	V	Vest	Lea	
	1		Latitude	: 32.1018231			Longitude:-103	3.71771	08	L	
				NAT	URE	OF REL	EASE				
Type of Rele	ease Water	Based Mud (WBM)			Volume of Release 5BBLS		Volume Recovered 4.5BBLS		BBLS	
Source of Re									Date and Hour of Discovery		
Centrifuge Fe Was Immedi						8/17/2017 @ 10:00 PM 8/17/2017 @ 10:00 PM If YES, To Whom? 8/17/2017 @ 10:00 PM					
was mincu			Yes	No 🗌 Not Re	equired						
						BLM-Shelly Tucker					
By Whom?	Mike Shoen	naker, Enviror	nmental Sp	oecialist		Date and Hour					
						OCD- 8/18/2017 @ 9:01 PM BLM- 8/18/2017 @ 9:02 pm					
Was a Water	rcourse Re	ached?					ol <u>ume Impacting</u>		tercourse		
			Yes 🛛	No							
If a Waterco	urse was I	mpacted, Des	scribe Full	y.*		1	RECEIV				
N/A Describe Ca	ugo of Duok	low and Dan	nodial A at	ion Tokon *			By Olivia	Yu a	at 7:29	am, Sep	05, 2017
					ntrol er	nnlovee disc	connected the ce	ntrifiig	e feed pur	nn hose and a	nproximately 5
							d tanks not bein				
				rial from pad su		• • • • • • • • • • • • • • • •		5			
-	• •			-							
Describe Ar											
							ng disconnected a location surface				
Approximate	IY 4.5 DDL		as recovere	tu via tile peallut	punip ai	ia scraping in		. An m	ilu stayeu (on the pad loca	lion.
							knowledge and u				
							nd perform correc arked as "Final R				
							on that pose a three				
or the environ	nment. In a	ddition, NMC	OCD accep				e the operator of i				
federal, state,	or local lay	ws and/or regu	ulations.								
							OIL COM	SEDV	ATION	DIVISION	(

	OIL CONSERVATION DIVISION
Signature: Michael R. Shoemaker	try
Printed Name: Michael R. Shoemaker	Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: 9/5/2017 Expiration Date:
E-mail Address: mike.shoemaker@dvn.com	Conditions of Approval:
Date: 08/31/17 Phone: 575.748.3371	see attached directive
Attach Additional Sheets If Necessary	

nOY1724827524 1RP-4799

pOY1724828133

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _8/31/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4799_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _10/5/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us



Released to Imaging: 9/20/2022 8:11:25 AM

Received by OCD: 2/25/2021 1:04:13 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 5 of 11	6
Incident ID	NOY1724827524	
District RP	1RP-4799	
Facility ID	30-025-43773	
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>340</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- 🛛 Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- \boxtimes Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

orm C-141	<i>1 1:04:13 PM</i> State of New Mexico			Page 6 of
	Oil Conservation Division	h	Incident ID	NOY1724827524
nge 4	On Conservation Division	1	District RP	1RP-4799
			Facility ID	30-025-43773
			Application ID	
public health or the environme failed to adequately investigate	Sinclair attended in PiccuBandon Sinclair, e-Talon UP, out-privingmental, c-us Date: 2021.02.25 08:35:40-0700'	e OCD does not relieve the nreat to groundwater, surfa	operator of liability sh ce water, human health liance with any other fe Project Manager	ould their operations have or the environment. In
eman. Usincian@taiompc.c				

Oil Conservation Division

	Page 7 of 116
Incident ID	NOY1724827524
District RP	1RP-4799
Facility ID	30-025-43773
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following i	itams must be included in the closure report
Cosure Report Attachment Checknist: Each of the following t	uems musi de included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Brittany Hall	Date: 9/20/2022
Printed Name: Brittany Hall	Title: Environmental Specialsit



talonlpe.com • 866.742.0742



Remediation and Closure Report

Arabian 30 19 Federal Com #002H Lea County, NM API # 30-025-43773, NOY1724827524 (1RP-4799)

Prepared For:

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

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

February 22, 2021

Page **1**

Mr. Jim Amos Bureau of Land Management 620 East Green Street Carlsbad, NM 88220

Mr. Mike Bratcher **NMOCD District 1** 1625 N. French Drive Hobbs, NM 88240

Subject: Remediation and Closure Report Arabian 30 19 Federal Com #002H Lea County, NM API # 30-025-43773, NOY1724827524 (1RP-4799)

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Production Company (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site characterization and remediation activities are contained herein.

Site Information

The Arabian 30 19 Federal Com #002H is located approximately thirty-seven (37) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter F, Section 30, Township 25 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.1018231 North and -103.7177108 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Maljamar and Palomas fine sands, 0 to 3 percent slopes. See Appendix II for the referenced soil data. The local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and piedmont sand deposits. Drainage courses in this area are typically dry.

The New Mexico Office of the State Engineer web site indicates that the nearest depth to groundwater is 340' below ground surface (BGS). See Appendix II for the referenced groundwater data.

Site Characterization

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth to	Groundwater	340 Feet/BGS
∏Yes ⊠No	Within 300 feet of any continuously flowing wat any other significant watercourse	ercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or play	/a lake
□Yes ⊠No	Within 300 feet from an occupied permanent re school, hospital, institution or church	esidence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domest well used by less than five households for dom watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or sprin Within incorporated municipal boundaries or wi Municipal fresh water well field covered under a ordinance adopted pursuant to Section 3-2703	thin a defined a municipal
☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area Within a 100-year floodplain	

This site does not meet any of the above criteria, and the depth to groundwater is greater than 100-feet BGS. However, as the depth to groundwater could not be determined using a source within a half-mile of the boundary of this release, a boring was advanced at sample point B-5 using direct-push sampling technology (Geoprobe) to 51' in order to exclude the presence of water at that depth. As no groundwater was encountered after a 72-hour interval, the closure criteria for this site are as follows:

Р	а	g	е	3
---	---	---	---	---

	Tab Closure Criteria for Soils		
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I TDS	Constituent	Method*	Limit**
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On October 17, 2017, 5 barrels (bbls) of water based mud (WBM) spilled onto the pad area due to a valve on the mud tanks not being closed. Approximately 4.5 bbls of the WBM was recovered using a diaphragm pump. The initial C-141 detailing this incident is attached in Appendix III. A site map illustrating the affected area is presented in Appendix I.

Site Assessment

On September 15, 2020, Talon mobilized personnel to perform a site assessment and collect soil samples. Grab soil samples were collected within and around the impacted area utilizing a Geoprobe. Additional sampling was required on November 18, 2020, in order to further delineate the impacted area. To verify the presence or absence of groundwater at depths below 50-feet (and to complete vertical delineation), an air-rotary drill rig was utilized (a soil boring log is presented in Appendix II). Groundwater was not encountered at 51-feet BGS after a 72-hour interval. Results from our sampling events are presented in the following data table. Complete laboratory reports can be found in Appendix V.

Page 4

Table 1 : Soil Sample Analysis									
Sample	Depth	Date	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
ID	(ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	losure C 15.29.12		50 mg/kg	10 mg/kg	1,000	mg/kg		2,500 mg/kg	10,000 mg/kg
	0-1	9/15/2020	ND	ND	ND	ND	ND	-	110
D 4	1-2	9/15/2020	ND	ND	ND	ND	ND	-	290
B-1	2-3	9/15/2020	ND	ND	ND	ND	ND	-	250
	3-4	9/15/2020	ND	ND	ND	ND	ND	-	190
	0-1	9/15/2020	ND	ND	ND	ND	ND	-	200
B-2	1-2	9/15/2020	ND	ND	ND	ND	ND	-	76
D-Z	2-3	9/15/2020	ND	ND	ND	ND	ND	-	65
	3-4	9/15/2020	ND	ND	ND	ND	ND	-	69
	0-1	9/15/2020	ND	ND	ND	ND	ND	-	1100
B-3	1-2	9/15/2020	ND	ND	ND	ND	ND	-	95
В-3	2-3	9/15/2020	ND	ND	ND	ND	ND	-	ND
	3-4	9/15/2020	ND	ND	ND	ND	ND	-	ND
	0-1	9/15/2020	ND	ND	ND	28	180	208.0	120
	1-2	9/15/2020	ND	ND	ND	ND	ND	-	200
B-4	2-3	9/15/2020	ND	ND	ND	ND	ND	-	430
	3-4	9/15/2020	ND	ND	ND	ND	ND	-	520
	6	11/18/2020	NT	NT	NT	NT	NT	-	ND
	8 R	11/18/2020	NT	NT	NT	NT	NT	-	ND
	0-1	9/15/2020	ND	ND	ND	ND	ND	-	1100
	1-2	9/15/2020	ND	ND	ND	ND	ND	-	3800
	2-3	9/15/2020	ND	ND	ND	ND	ND	-	880
B-5	3-4	9/15/2020	ND	ND	ND	ND	ND	-	640
	6	11/18/2020	NT	NT	NT	NT	NT	-	ND
	8	11/18/2020	NT	NT	NT	NT	NT	-	ND
	10	11/18/2020	NT	NT	NT	NT	NT	-	ND
	0-1	9/15/2020	ND	ND	ND	37	130	167.0	1900
B-6	1-2	9/15/2020	ND	ND	ND	ND	ND	-	620
	2-3	9/15/2020	ND	ND	ND	ND	ND	-	820
	3-4	9/15/2020	ND	ND	ND	ND	ND	-	460

Table 1 : Soil Sample Analysis

	Р	а	g	е	5
--	---	---	---	---	---

Sample IDDeptin (ft.)DateBEAX (mg/kg)Benzine (mg/kg)GRO (mg/kg)DRO (mg/kg)MRO (mg/kg)Index (mg/kg) <t< th=""><th>Commente</th><th>Deveth</th><th></th><th>DTCV</th><th>Deverse</th><th>GRO</th><th></th><th>MRO</th><th></th><th>Cl</th></t<>	Commente	Deveth		DTCV	Deverse	GRO		MRO		Cl
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Sample	Depth	Date	BTEX	Benzene		DRO (mg/kg)		Total TPH	
19.15.29.12 NMACmg/kgmg/kgng/kgng/kgmg/kgmg/kgmg/kgmg/kgB-70.19/15/2020NDNDNDNDNDNDAD1-29/15/2020NDNDNDNDNDNDA703-49/15/2020NDNDNDNDNDNDA703-49/15/2020NDNDNDNDNDND-460B-80-19/15/2020NDNDNDNDNDND-7303-49/15/2020NDNDNDNDNDND-1202-39/15/2020NDNDNDNDNDND-ND3-49/15/2020NDNDNDNDNDNDNDNDB-90.19/15/2020NDNDNDNDNDNDNDB-9A0.5-11/6/2021NTNTNTNTNTNTB-9A0.5-11/18/2020NTNTNTNTNT120B-9A0.5-11/18/2020NTNTNTNTNTNTNDB-9A0.5-11/18/2020NTNTNTNTNTNTNDB-9A0.5-11/18/2020NTNTNTNTNTNTNDB-9A0.5-11/18/2020NTNTNTNTNTNT<		(10.)		(116/16/	(116/16)	(116/16)	(116/16)	(116/16)	(116/16/	(116/16/
19.15.29.12 NMAC mg/kg mg/kg						1 000	mg/kg			-
	19	.15.29.12	2 NMAC	mg/kg	mg/kg	1,000			mg/kg	mg/kg
B-72-39/15/2020NDNDNDNDNDNDNDA703-49/15/2020NDNDNDNDNDNDNDNDA60B-80-19/15/2020NDNDNDNDNDNDNDND1202-39/15/2020NDNDNDNDNDNDND-1202-39/15/2020NDNDNDNDNDND-ND3-49/15/2020NDNDNDNDNDND-ND3-49/15/2020NDNDNDNDND-NDB-90-19/15/2020NDNDNDNDND-ND3-49/15/2020NDNDNDNDNDND-NDB-9A0.5-11/6/2021NDNDNDNDND-NDB-9A0.5-11/6/2021NTNTNTNTNTNT-6400311/18/2020NTNTNTNTNT-NDNDNDNDB-10311/18/2020NTNTNTNTNTNTNTNDNDNDB-1011/18/2020NTNTNTNTNTNTNDNDNDNDNDB-1011/18/2020NTNTNTNTNTNT		0-1	9/15/2020	ND	ND	ND	ND	ND	-	410
	D 7	1-2	9/15/2020	ND	ND	ND	ND	ND	-	250
B-8 0-1 9/15/2020 ND ND ND ND ND ND ND ND - 730 1-2 9/15/2020 ND ND ND ND ND ND - 120 2-3 9/15/2020 ND ND ND ND ND ND - ND 3-4 9/15/2020 ND ND ND ND ND - ND B-9 0-1 9/15/2020 ND ND ND ND ND - ND B-9 1-2 9/15/2020 ND	B-1	2-3	9/15/2020	ND	ND	ND	ND	ND	-	470
		3-4	9/15/2020	ND	ND	ND	ND	ND	-	460
B-8 2-3 9/15/2020 ND		0-1	9/15/2020	ND	ND	ND	ND	ND	-	730
2-3 9/15/2020 ND	D O	1-2	9/15/2020	ND	ND	ND	ND	ND	-	120
0-1 9/15/2020 ND ND ND 4200 23000 27200.0 61 1-2 9/15/2020 ND ND ND ND ND ND ND 2-3 9/15/2020 ND ND ND ND ND ND ND 3-4 9/15/2020 ND ND ND ND ND ND ND ND B-9A 0.5-1 1/6/2021 NT NT ND ND ND ND ND ND NT B-9A 0.5-1 1/6/2021 NT NT NT ND ND NT NT B-9A 0.5-1 1/6/2021 NT NT NT NT NT NT 120 B-9A 0.5-1 11/18/2020 NT NT NT NT NT 120 B-10 3 11/18/2020 NT NT NT NT NT ND ND ND	B-8	2-3	9/15/2020	ND	ND	ND	ND	ND	-	ND
B-9 1-2 9/15/2020 ND ND ND ND ND ND ND 2-3 9/15/2020 ND 3-4 9/15/2020 ND 120 N1 120 NT NT NT NT ND ND ND ND ND ND 120 <		3-4	9/15/2020	ND	ND	ND	ND	ND	-	ND
B-9 1-2 9/15/2020 ND ND ND ND ND ND ND 2-3 9/15/2020 ND 3-4 9/15/2020 ND 120 N1 120 NT NT NT NT ND ND ND ND ND ND 120 <										
B-9 2-3 9/15/2020 ND ND ND ND ND ND ND ND 3-4 9/15/2020 ND B-9A 0.5-1 1/6/2021 NT NT ND ND ND ND ND ND B-9A 0.5-1 1/6/2021 NT NT ND ND ND ND ND ND B-9A 0.5-1 1/6/2021 NT NT NT ND ND NT NT B-9A 0-1 11/18/2020 NT NT NT NT NT 120 B-10 3 11/18/2020 NT NT NT NT NT ND ND ND B-10 4 11/18/2020 NT NT NT NT NT ND ND BG-1 0-1 11/18/2020 NT		0-1	9/15/2020	ND	ND	ND	4200	23000	27200.0	61
2-3 9/15/2020 ND NT ND	D O	1-2	9/15/2020	ND	ND	ND	ND	ND	-	ND
B-9A 0.5-1 1/6/2021 NT NT ND ND ND - NT B-9A 0.5-1 1/6/2021 NT NT ND ND ND - NT V - 11/18/2020 NT NT NT NT NT NT 6400 2 11/18/2020 NT NT NT NT NT - 6400 3 11/18/2020 NT NT NT NT NT - 120 4 11/18/2020 NT NT NT NT NT ND ND 4 11/18/2020 NT NT NT NT NT ND ND 4 11/18/2020 NT NT NT NT NT ND ND BG-1 0-1 11/18/2020 NT NT NT NT NT 210 BG-3 0-1 11/18/2020 NT NT <td>B-9</td> <td>2-3</td> <td>9/15/2020</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>ND</td> <td>-</td> <td>ND</td>	B-9	2-3	9/15/2020	ND	ND	ND	ND	ND	-	ND
B-10 0-1 11/18/2020 NT NT NT NT NT - 6400 2 11/18/2020 NT NT NT NT NT - 120 3 11/18/2020 NT NT NT NT NT - ND 4 11/18/2020 NT NT NT NT NT - ND 4 11/18/2020 NT NT NT NT NT - ND 6 R 11/18/2020 NT NT NT NT NT - ND BG-1 0-1 11/18/2020 NT NT NT NT - ND BG-2 0-1 11/18/2020 NT NT NT NT - 210 BG-3 0-1 11/18/2020 NT NT NT NT - 170		3-4	9/15/2020	ND	ND	ND	ND	ND	-	ND
2 11/18/2020 NT NT NT NT NT - 120 B-10 3 11/18/2020 NT NT NT NT NT NT ND 4 11/18/2020 NT NT NT NT NT ND 6 R 11/18/2020 NT NT NT NT NT ND BG-1 0-1 11/18/2020 NT NT NT NT NT ND BG-2 0-1 11/18/2020 NT NT NT NT NT - 86 BG-3 0-1 11/18/2020 NT NT NT NT - 210	B-9A	0.5-1	1/6/2021	NT	NT	ND	ND	ND	-	NT
2 11/18/2020 NT NT NT NT NT - 120 B-10 3 11/18/2020 NT NT NT NT NT NT ND 4 11/18/2020 NT NT NT NT NT ND 6 R 11/18/2020 NT NT NT NT NT ND BG-1 0-1 11/18/2020 NT NT NT NT NT ND BG-2 0-1 11/18/2020 NT NT NT NT NT - 86 BG-3 0-1 11/18/2020 NT NT NT NT - 210		1								
B-10 3 11/18/2020 NT NT NT NT NT NT ND 4 11/18/2020 NT NT NT NT NT NT ND 6 R 11/18/2020 NT NT NT NT NT ND 6 R 11/18/2020 NT NT NT NT NT ND BG-1 0-1 11/18/2020 NT NT NT NT NT - 86 BG-2 0-1 11/18/2020 NT NT NT NT - 210 BG-3 0-1 11/18/2020 NT NT NT NT - 170		0-1	11/18/2020	NT	NT	NT	NT	NT	-	6400
4 11/18/2020 NT NT NT NT NT NT ND 6 R 11/18/2020 NT NT NT NT NT NT ND BG-1 0-1 11/18/2020 NT NT NT NT NT - 86 BG-2 0-1 11/18/2020 NT NT NT NT - 210 BG-3 0-1 11/18/2020 NT NT NT NT - 170		2	11/18/2020	NT	NT	NT	NT	NT	-	120
6 R 11/18/2020 NT NT NT NT NT NT ND BG-1 0-1 11/18/2020 NT NT NT NT NT - ND BG-2 0-1 11/18/2020 NT NT NT NT NT - 86 BG-3 0-1 11/18/2020 NT NT NT NT - 210	B-10	3	11/18/2020	NT	NT	NT	NT	NT	-	ND
BG-1 0-1 11/18/2020 NT NT NT NT NT - 86 BG-2 0-1 11/18/2020 NT NT NT NT NT - 210 BG-3 0-1 11/18/2020 NT NT NT NT - 170		4	11/18/2020	NT	NT	NT	NT	NT	-	ND
BG-2 0-1 11/18/2020 NT NT NT NT NT 210 BG-3 0-1 11/18/2020 NT NT NT NT NT - 210		6 R	11/18/2020	NT	NT	NT	NT	NT	-	ND
BG-2 0-1 11/18/2020 NT NT NT NT NT 210 BG-3 0-1 11/18/2020 NT NT NT NT NT - 210		1								
BG-3 0-1 11/18/2020 NT NT NT NT NT - 170	BG-1	0-1	11/18/2020	NT	NT	NT	NT	NT	-	86
	BG-2	0-1	11/18/2020	NT	NT	NT	NT	NT	-	210
BG-4 0-1 11/18/2020 NT NT NT NT NT - 190	BG-3	0-1	11/18/2020	NT	NT	NT	NT	NT	-	170
	BG-4	0-1	11/18/2020	NT	NT	NT	NT	NT	-	190

ND= Analyte Not Detected NT= Analyte Not Tested

R= Boring Refusal

Remedial Actions

- The surficial contamination near sample point B-9 was excavated to a depth of 0.5-feet BGS using a hydro-excavator.
- A confirmation sample (B-9A) was obtained to verify that all contaminants above NMOCD closure criteria had been removed.
- The excavated area was backfilled with new caliche and machine compacted to match the surrounding terrain.
- All the excavated material was hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.

Closure

Based on the results of our site assessment, remedial actions and confirmation sampling results, we respectfully request that no further actions be required and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Brandon Digitally signed by Bandon Stream Stream On construction Stream or Taken Left Environmental, similar bandarierabangecom, cus banez 2021 (0.225 06:32:40-07:00'

Brandon Sinclair Project Manager



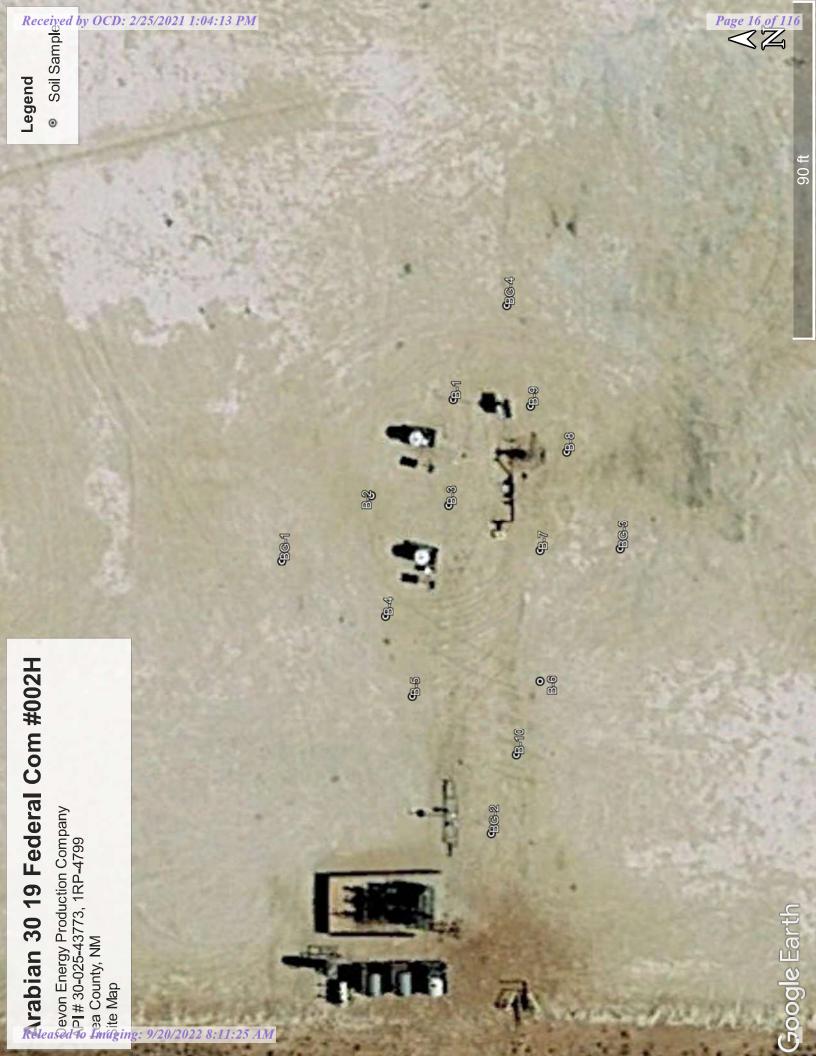
David J. Adkins Regional Manager

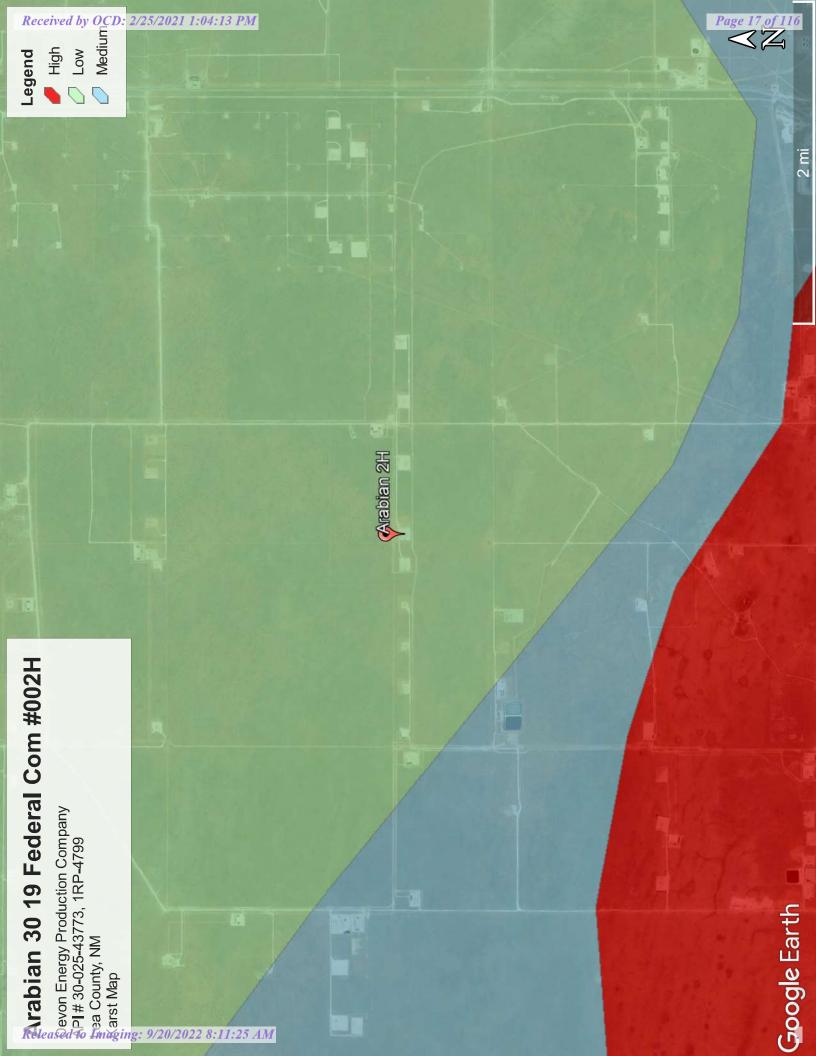
Attachments	
Appendix I	Site Maps
Appendix II	Soil Boring Log, Groundwater & Soil Data, FEMA Flood Map
Appendix III	C-141 Forms
Appendix IV	Photographic Documentation
Appendix V	Laboratory Data

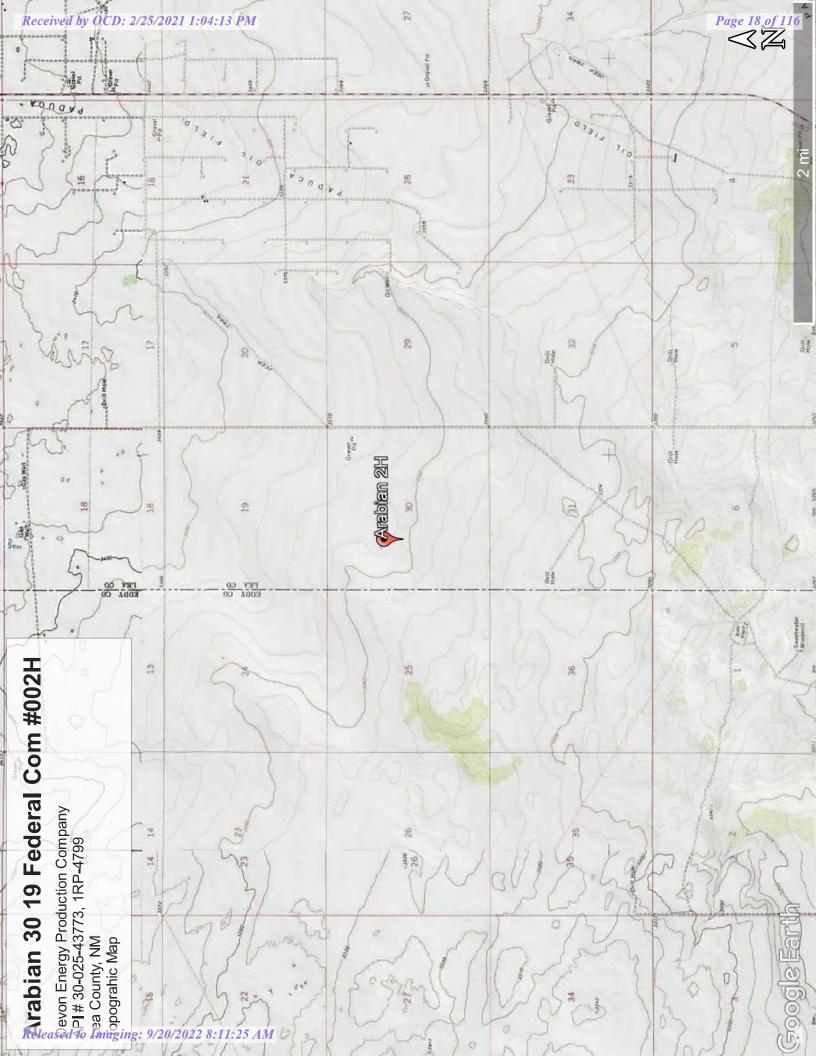


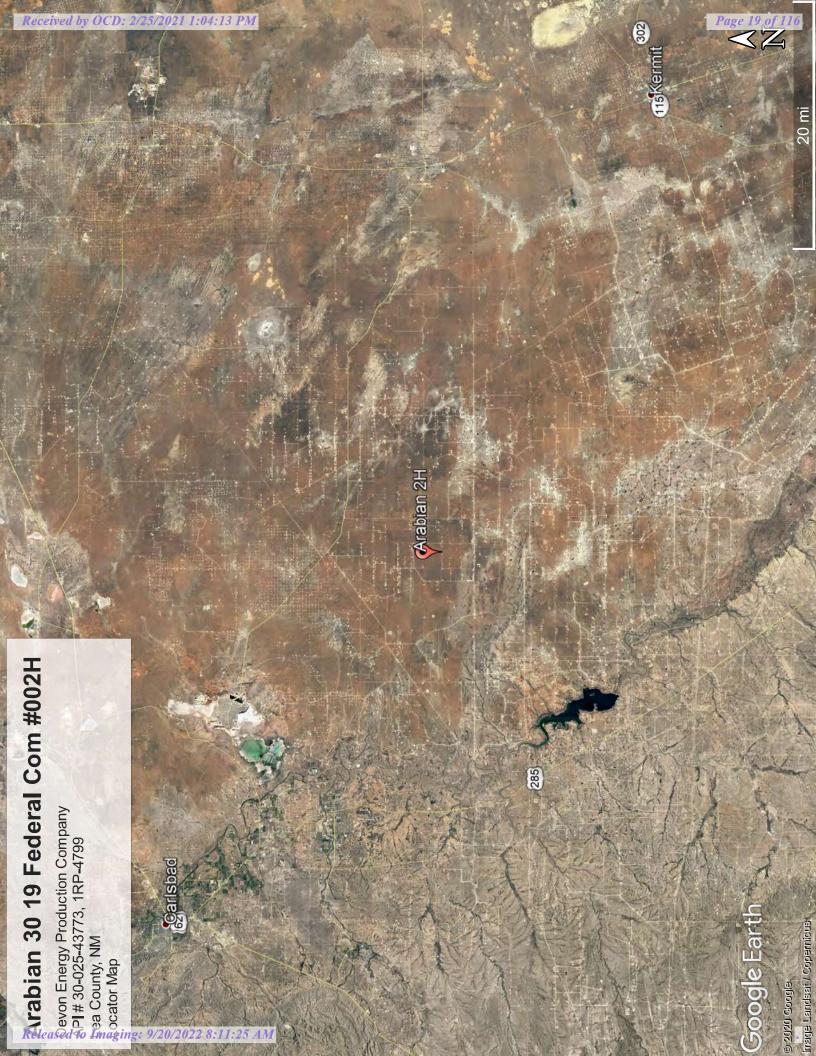
<u>APPENDIX I</u>

SITE MAPS











<u>APPENDIX II</u>

SOIL BORING LOG

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD MAP

Received by OCD: 2/25/2021 1:04:13 PM



BORING LOG

Project No.: 700794.333.01 Site Name: Arabian 30 19 Fed Com 2H Location: Eddy County, New Mexico Date: 11/18/2020

Boring Number: B-5

Weather: Sunny, Warm Temp.: 80's °FDriller: M. DoyleLogger: B. SinclairRig Type: Geoprobe 7822DTField Instrument: Lab AnalysisBit Size: 5 ¼"Latitude: 32.1018231° NDrilling Method: Air RotaryLongitude: -103.7177108°WSample Retrieval Method: Core Liner

Sample Material/Comments Composition (%) Hydrocarbon Odor Lab Sample Collected Include composition, color, grain size, moisture, hardness, PID (ppm) Sample Recovery (ft) Sample Interval (ft) USCS Time plasticity, density Dark brown fine Sand (SP) with trace amounts of None caliche. 0-6' Light brown fine Sand (SP) with varying amounts of None caliche. 6-25' Red/brown fine Sand (SP) with trace amounts of None caliche. 25-45' Pinkish-white fine Sand (SP). None 45-51' Surface Elevation: 3,600' Notes: TD 53', Groundwater Not Encountered



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)	(2=NE 3	3=SW 4=SE) AD83 UTM in me	aters)	(In feet)	
	POD	(quu		54	10 51	nance		gc3t) (14			(in loot)	
	Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin C	County	64	16	4	Sec	Tws	Rng	Х	Y	Distance	-	-	Column
C 04256 POD1	С	ED	4	4	2	01	26S	31E	620384	3549257 🌍	3241	666	340	326
C 03639 POD1	CUB	ED	3	4	2	01	26S	31E	620168	3549279 🌍	3266	700	365	335
C 03829 POD1	CUB	LE	3	3	1	06	26S	32E	620628	3549186 🌍	3275	646	350	296
C 03554 POD1	CUB	ED	2	1	4	01	26S	31E	620547	3549148 🌑	3322	630	300	330
C 04209 POD2	С	LE	2	3	3	06	26S	32E	620818	3548657 🌍	3788	340	155	185
C 04209 POD1	CUB	LE	2	3	3	06	26S	32E	620903	3548619 🌍	3822	360	155	205
<u>C 02090</u>	С	ED		4	4	01	26S	31E	620329	3548533* 🌍	3964	350	335	15
										Avera	ge Depth to	Water:	285	feet
											Minimum	Depth:	155	feet
											Maximum	Depth:	365	feet
Record Count: 7														

UTMNAD83 Radius Search (in meters):

Easting (X): 620989.45

Northing (Y): 3552441.67

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.

Page 22 of 116

Lea County, New Mexico

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

Map Unit Setting

National map unit symbol: dmqb Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Farmland of statewide importance

Map Unit Composition

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

Description of Maljamar

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): 7e

Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Description of Palomas

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 45 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Minor Components

Kermit

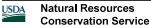
Percent of map unit: 5 percent Ecological site: R042XC022NM - Sandhills Hydric soil rating: No

Wink

Percent of map unit: 5 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 17, Jun 8, 2020





Legend		Recei
SEE FIS REPORT FOR D	ETAILED LEG	SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOU
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) A Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AP Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Ars of 1% annual chance flood with avera depth less than one foot or with drain areas of less than one square mile 2007 Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone X
OTHER AREAS GENERAL STRUCTURES	NO SCREEN	Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
OTHER	B 30.2 1725 00	Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
MAP PANELS	The piran and an aut	 Digital Data Available No Digital Data Available Unmapped Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.
This map com digital flood m The basemap accuracy stant The flood haza authoritative h was exported time. The NFH become super	complies with F od maps if it is is map shown corr standards hazard informa tive NFHL web s tred on 12/28/; anges or amenc NFHL and effec uperseded by n	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 12/28,2020 at 11:55 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 w elements do not app legend, scale bar, m FIRM panel number, unmapped and unm regulatory purposes.	še is void if ot appear: par, map cr mber, and d unmoder poses.	This map image is void if the one or more of the following map a 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.



0



APPENDIX III

C-141 FORMS

Date: 08/31/17

State of New Mexico Energy Minerals and Natural Resources

> **Oil Conservation Division** 1220 South St. Francis Dr.

Final Report

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	cis Dr., Santa	a re, nivî 87303	,	Sa	inta Fe	e, NM 875	505					
			Rele	ease Notific	catior	and Co	orrective A	ction	l			
						OPERA	TOR		🛛 Initi	al Report	🗌 Final	l Repo
Name of Co	o mnany D	Devon Energy	v Product	ion Company		Contact M	ark Kramer, Dri	illing S		1		
Address 64							No. 405-552-78		<u></u>			
		in 30-19 Fed				Facility Ty		20				
·												
Surface Owner Federal Mineral Owner F						Federal			API No	30-025-43	773	
		_	-		TIO	N OF RE	LEASE					
Unit Letter F	Section 30	Township 25S	Range 32E	Feet from the 2486		/South Line North	Feet from the 1594		West Line West	County Lea		
			Latitude	: 32.1018231			Longitude:-103	3.7177	108			
				NAT	URE	OF REL			1			
Type of Rele	ease Water	Based Mud (V	WBM)			Volume of Release 5BBLS Volume I			Recovered 4.5BBLS			
Source of Re Centrifuge Fe		Iose							Hour of Dis @ 10:00 PM	Hour of Discovery @ 10:00 PM		
Was Immediate Notice Given?						If YES, To Whom? OCD-Olivia Yu						
D W/h9 N	M:1 C1			: - 1: - 4		BLM-Shel						
By Whom? N	vlike Shoen	naker, Enviroi	nmental Sj	pecialist		Date and Hour OCD- 8/18/2017 @ 9:01 PM						
					BLM- 8/18/2017 @ 9:02 pm							
Was a Water	rcourse Re	ached?					olume Impacting		atercourse			
			Yes 🗵	No			(
If a Waterco N/A	ourse was I	mpacted, Des	scribe Ful	ly.*		1	RECEIV By Olivia		at 7·20	am Se	n 05 2	017
	use of Prob	olem and Ren	nedial Act	tion Taken.*			by onvia	14	ut 7.25	uni, oc	p 00, 2	
					ntrol er	nployee disc	connected the ce	entrifug	e feed pur	np hose and	approxima	ately 5
						ve on the mu	d tanks not bein	ig close	ed. The va	lve was imr	nediately cl	losed
and a peanu	t pump wa	as used to col	llect mate	erial from pad su	urface.							
Approximate	ly 5BBLS o		released as	s a result of a cent			ing disconnected a location surface					ed.
	2			1		1 0			2			
regulations al public health should their c or the environ	ll operators or the envir operations h nment. In a	are required to ronment. The nave failed to a	o report ar acceptanc adequately)CD accep	nd/or file certain r ce of a C-141 report investigate and r	elease n ort by the emediat	otifications and e NMOCD m e contaminati	knowledge and u nd perform correc arked as "Final R on that pose a thre e the operator of r	tive acti eport" d eat to gr	ions for rele loes not reli round water	eases which n eve the opera , surface wat	nay endangen ator of liabilit er, human he	er ity ealth
a						OIL CONSERVATION DIVISION						
Signature: M	ichael R. S	Shoemaker				tru						
Printed Name	e: Michael I	R. Shoemaker				Approved by Environmental Specialist:						
Title: Enviror	nmental Spo	ecialist				Approval Da	te: 9/5/2017]	Expiration 1	Date:		
E-mail Addre	ess: mike.sh	oemaker@dv	n.com			Conditions of	f Approval:			Attached		

* Attach Additional Sheets If Necessary

nOY1724827524 1RP-4799

see attached directive

pOY1724828133

Released to Imaging: 9/20/2022 8:11:25 AM

Phone: 575.748.3371

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _8/31/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4799_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _10/5/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us



Received by OCD: 2/25/2021 1:04:13 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

Incident ID	NOY1724827524
District RP	1RP-4799
Facility ID	30-025-43773
Application ID	

Page 32 of 116

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>340</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- 🛛 Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- \boxtimes Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

eceived by OCD: 2/25/2021 1:	4:13 PM State of New Mexico	Page 33					
			Incident ID	NOY1724827524			
age 4	Oil Conservation Division	1	District RP	1 RP- 4799			
			Facility ID	30-025-43773			
			Application ID				
public health or the environment. failed to adequately investigate an	ed to report and/or file certain release no The acceptance of a C-141 report by the remediate contamination that pose a th 41 report does not relieve the operator of Brandon Sinclair Digualy signed by Bondon Sinclar Dit conference on Table Dit conference on Table	e OCD does not relieve the nreat to groundwater, surfa	e operator of liability sh ice water, human health liance with any other fe Project Manager	nould their operations have n or the environment. In			
OCD Only Received by:		Date:					

Page 6

Oil Conservation Division

Incident ID	NOY1724827524
District RP	1RP-4799
Facility ID	30-025-43773
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

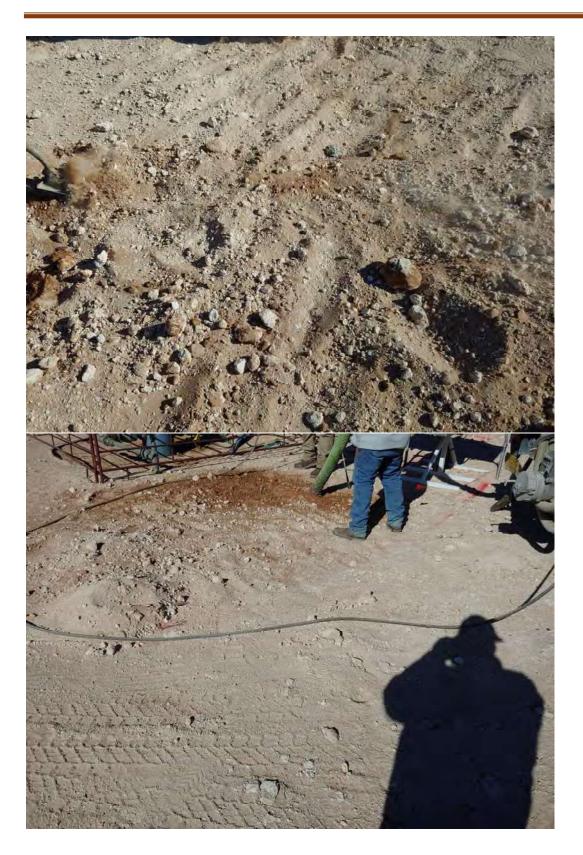
Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Brandon Sinclair Title: Environmental Project Manager Brandon itally signed by Brandon Sinclair : cn=Brandon Sinclair, o=Talon :, ou=Environmental, email-bsinclair@talonlpe.com, c=US Date: 2021.02.25 08:33:41 -07'00' Sinclair Signature: Date: 2-25-2021 email: bsinclair@talonlpe.com Telephone: 575-746-8768 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: <u>Brittany Hall</u> Date: <u>9/20/2022</u> Printed Name: Brittany Hall Title: Environmental Specialist



<u>APPENDIX IV</u>

PHOTOGRAPHIC DOCUMENTATION

Arabian 30 19 Fed Com #002H Excavation Photographs



Received by OCD: 2/25/2021 1:04:13 PM

Arabian 30 19 Fed Com #002H Excavation Photographs





<u>APPENDIX V</u>

LABORATORY DATA



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

September 25, 2020

Rebecca Pons Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX

RE: Devon Energy Arabian 30-19 Fed Com 2H

OrderNo.: 2009980

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 36 sample(s) on 9/17/2020 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 9/25/2020

9/18/2020 10:09:21 PM 55245

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		C	Client Sample ID: B-1 0-1'						
Project:	Devon Energy Arabian 30-	-19 Fed Com 2		Collection Date: 9/15/2020 9:00:00 AM						
Lab ID:	2009980-001	Matrix: SOI		Received Date: 9/17/2020 7:30:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT			
Chloride		110	60	mg/Kg	20	9/22/2020 6:12:07 PM	55353			
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF			
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	9/18/2020 10:09:21 PM	55245			
Surr: E	BFB	98.1	70-130	%Rec	1	9/18/2020 10:09:21 PM	55245			
EPA MET	HOD 8015M/D: DIESEL R/	ANGE ORGANICS				Analyst	CLP			
Diesel Ra	ange Organics (DRO)	ND	9.2	mg/Kg	1	9/18/2020 5:13:02 PM	55250			
Motor Oil	Range Organics (MRO)	ND	46	mg/Kg	1	9/18/2020 5:13:02 PM	55250			
Surr: E	DNOP	132	30.4-154	%Rec	1	9/18/2020 5:13:02 PM	55250			
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF			
Benzene		ND	0.024	mg/Kg	1	9/18/2020 10:09:21 PM	55245			

ND

ND

ND

90.2

98.2

94.2

98.9

0.048

0.048

0.096

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

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

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
 D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 44

Date Reported: 9/25/2020

9/18/2020 11:37:23 PM 55245

55245

55245

9/18/2020 11:37:23 PM

9/18/2020 11:37:23 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia		Client Sample ID: B-1 1-2'							
Project: Devon Energy Arabian 30-19 Fee	d Com 2	Collection Date: 9/15/2020 9:10:00 AM							
Lab ID: 2009980-002	Matrix: SOIL	DIL Received Date: 9/17/2020 7:30:00 AM				17/2020 7:30:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	: JMT		
Chloride	290	60		mg/Kg	20	9/22/2020 6:49:10 PM	55353		
EPA METHOD 8015D MOD: GASOLINE RA	ANGE					Analyst	DJF		
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2020 11:37:23 PM	55245		
Surr: BFB	97.7	70-130		%Rec	1	9/18/2020 11:37:23 PM	55245		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: CLP		
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	9/18/2020 5:22:53 PM	55250		
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/18/2020 5:22:53 PM	55250		
Surr: DNOP	162	30.4-154	S	%Rec	1	9/18/2020 5:22:53 PM	55250		
EPA METHOD 8260B: VOLATILES SHOR	T LIST					Analyst	DJF		

ND

ND

ND

ND

90.8

97.3

94.6

98.1

0.024

0.049

0.049

0.098

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
 D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 44

Project:

Lab ID:

Analyses

Chloride

Surr: BFB

Surr: DNOP

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Gasoline Range Organics (GRO)

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

EPA METHOD 8260B: VOLATILES SHORT LIST

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/19/2020 12:07:05 AM

9/18/2020 5:32:46 PM

9/18/2020 5:32:46 PM

9/18/2020 5:32:46 PM

9/19/2020 12:07:05 AM

9/19/2020 12:07:05 AM

9/19/2020 12:07:05 AM 55245

55245

55250

55250

55250

55245

55245

Analyst: CLP

Analyst: DJF

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: B-1 2-3' Devon Energy Arabian 30-19 Fed Com 2 Collection Date: 9/15/2020 9:20:00 AM 2009980-003 Matrix: SOIL Received Date: 9/17/2020 7:30:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: JMT 9/22/2020 7:01:31 PM 250 60 mg/Kg 20 55353 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF

4.7

9.8

49

S

30.4-154

0.024

0.047

0.047

0.095

70-130

70-130

70-130

70-130

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

1

1

1

1

1

ND

98.6

ND

ND

157

ND

ND

ND

ND

91.5

98.1

92.8

99.8

Refer to the QC Summary repo	ort and sample login checklis	st for flagged OC 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 44

2009980-004

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

Client Sample ID: B-1 3-4' Collection Date: 9/15/2020 9:30:00 AM Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	190	60	mg/Kg	20	9/22/2020 7:13:52 PM	55353
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2020 12:36:19 AM	55245
Surr: BFB	100	70-130	%Rec	1	9/19/2020 12:36:19 AM	55245
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/18/2020 5:42:43 PM	55250
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/18/2020 5:42:43 PM	55250
Surr: DNOP	134	30.4-154	%Rec	1	9/18/2020 5:42:43 PM	55250
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/19/2020 12:36:19 AM	55245
Toluene	ND	0.048	mg/Kg	1	9/19/2020 12:36:19 AM	55245
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2020 12:36:19 AM	55245
Xylenes, Total	ND	0.097	mg/Kg	1	9/19/2020 12:36:19 AM	55245
Surr: 1,2-Dichloroethane-d4	89.9	70-130	%Rec	1	9/19/2020 12:36:19 AM	55245
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	9/19/2020 12:36:19 AM	55245
Surr: Dibromofluoromethane	94.3	70-130	%Rec	1	9/19/2020 12:36:19 AM	55245
Surr: Toluene-d8	100	70-130	%Rec	1	9/19/2020 12:36:19 AM	55245

Matrix: SOIL

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
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 44

Surr: BFB

Surr: DNOP

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Gasoline Range Organics (GRO)

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

EPA METHOD 8260B: VOLATILES SHORT LIST

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/19/2020 3:33:06 AM

9/19/2020 3:33:06 AM

9/18/2020 5:52:43 PM

9/18/2020 5:52:43 PM

9/18/2020 5:52:43 PM

9/19/2020 3:33:06 AM

55245

55245

55250

55250

55250

55245

55245

55245

55245

55245

55245

55245

55245

Analyst: CLP

Analyst: DJF

Hall Environmental Analysis Laboratory, Inc.

CLIENT :	: Talon Artesia		Client Sample ID: B-2 0-1'						
Project:	ject: Devon Energy Arabian 30-19 Fed Com 2		Coll						
Lab ID:	2009980-005	Matrix: SOIL Received Date: 9/17/2020 7:30:00 A			7/2020 7:30:00 AM				
Analyses	5	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch		
EPA ME	THOD 300.0: ANIONS					Analys	t: JMT		
Chloride)	200	60	mg/Kg	20	9/22/2020 7:26:13 PM	55353		
EPA ME	THOD 8015D MOD: GASO	LINE RANGE				Analys	t: DJF		

4.8

9.9

49

30.4-154

0.024

0.048

0.048

0.096

70-130

70-130

70-130

70-130

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

1

1

1

1

1

ND

98.7

ND

ND

151

ND

ND

ND

ND

95.9

96.5

97.1

98.5

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 44

2009980-006

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

Client Sample ID: B-2 1-2' Collection Date: 9/15/2020 9:50:00 AM Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Un	its	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	76	60	mg	/Kg	20	9/22/2020 8:03:14 PM	55353
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg	J/Kg	1	9/19/2020 4:02:36 AM	55245
Surr: BFB	96.3	70-130	%F	Rec	1	9/19/2020 4:02:36 AM	55245
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg	J/Kg	1	9/18/2020 6:02:43 PM	55250
Motor Oil Range Organics (MRO)	ND	48	mg	/Kg	1	9/18/2020 6:02:43 PM	55250
Surr: DNOP	138	30.4-154	%F	Rec	1	9/18/2020 6:02:43 PM	55250
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	DJF
Benzene	ND	0.023	mg	J/Kg	1	9/19/2020 4:02:36 AM	55245
Toluene	ND	0.046	mg	/Kg	1	9/19/2020 4:02:36 AM	55245
Ethylbenzene	ND	0.046	mg	J/Kg	1	9/19/2020 4:02:36 AM	55245
Xylenes, Total	ND	0.092	mg	J/Kg	1	9/19/2020 4:02:36 AM	55245
Surr: 1,2-Dichloroethane-d4	95.2	70-130	%F	Rec	1	9/19/2020 4:02:36 AM	55245
Surr: 4-Bromofluorobenzene	98.8	70-130	%F	Rec	1	9/19/2020 4:02:36 AM	55245
Surr: Dibromofluoromethane	96.0	70-130	%F	Rec	1	9/19/2020 4:02:36 AM	55245
Surr: Toluene-d8	97.5	70-130	%F	Rec	1	9/19/2020 4:02:36 AM	55245

Matrix: SOIL

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
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 44

2009980-007

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

Client Sample ID: B-2 2-3' Collection Date: 9/15/2020 10:00:00 AM Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT	
Chloride	65	60	mg/Kg	20	9/22/2020 8:15:34 PM	55353	
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2020 4:31:38 AM	55245	
Surr: BFB	98.9	70-130	%Rec	1	9/19/2020 4:31:38 AM	55245	
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	:: CLP	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/18/2020 6:12:42 PM	55250	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/18/2020 6:12:42 PM	55250	
Surr: DNOP	130	30.4-154	%Rec	1	9/18/2020 6:12:42 PM	55250	
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF	
Benzene	ND	0.024	mg/Kg	1	9/19/2020 4:31:38 AM	55245	
Toluene	ND	0.048	mg/Kg	1	9/19/2020 4:31:38 AM	55245	
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2020 4:31:38 AM	55245	
Xylenes, Total	ND	0.095	mg/Kg	1	9/19/2020 4:31:38 AM	55245	
Surr: 1,2-Dichloroethane-d4	92.5	70-130	%Rec	1	9/19/2020 4:31:38 AM	55245	
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	9/19/2020 4:31:38 AM	55245	
Surr: Dibromofluoromethane	95.6	70-130	%Rec	1	9/19/2020 4:31:38 AM	55245	
Surr: Toluene-d8	101	70-130	%Rec	1	9/19/2020 4:31:38 AM	55245	

Matrix: SOIL

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
- D Sample Diluted Due to MatrixH 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 44

2009980-008

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

Client Sample ID: B-2 3-4' Collection Date: 9/15/2020 10:10:00 AM Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	69	60	mg/Kg	20	9/23/2020 11:10:46 AM	55365
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2020 5:01:10 AM	55245
Surr: BFB	98.9	70-130	%Rec	1	9/19/2020 5:01:10 AM	55245
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/18/2020 6:52:36 PM	55253
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/18/2020 6:52:36 PM	55253
Surr: DNOP	137	30.4-154	%Rec	1	9/18/2020 6:52:36 PM	55253
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/19/2020 5:01:10 AM	55245
Toluene	ND	0.048	mg/Kg	1	9/19/2020 5:01:10 AM	55245
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2020 5:01:10 AM	55245
Xylenes, Total	ND	0.095	mg/Kg	1	9/19/2020 5:01:10 AM	55245
Surr: 1,2-Dichloroethane-d4	90.2	70-130	%Rec	1	9/19/2020 5:01:10 AM	55245
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	9/19/2020 5:01:10 AM	55245
Surr: Dibromofluoromethane	96.2	70-130	%Rec	1	9/19/2020 5:01:10 AM	55245
Surr: Toluene-d8	98.4	70-130	%Rec	1	9/19/2020 5:01:10 AM	55245

Matrix: SOIL

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 44

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia			Cl	ient Sa	mple II): B-:	3 0-1'	
Project:	Devon Energy Arabian 30-	19 Fed Com 2		(Collecti	on Dat	e: 9/1	5/2020 10:20:00 AM	
Lab ID:	2009980-009	Matrix:	SOIL		Receiv	ed Dat	e: 9/1	7/2020 7:30:00 AM	
Analyses		R	esult	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS							Analyst:	JMT
Chloride			1100	60		mg/Kg	20	9/23/2020 11:47:47 AM	55365
EPA MET	HOD 8015D MOD: GASOL	INE RANGE						Analyst:	DJF
Gasoline	Range Organics (GRO)		ND	4.8		mg/Kg	1	9/19/2020 5:30:58 AM	55245
Surr: B	FB		94.4	70-130		%Rec	1	9/19/2020 5:30:58 AM	55245
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANIC	S					Analyst:	CLP
Diesel Ra	inge Organics (DRO)		ND	9.6		mg/Kg	1	9/18/2020 7:22:26 PM	55253
Motor Oil	Range Organics (MRO)		ND	48		mg/Kg	1	9/18/2020 7:22:26 PM	55253
Surr: D	NOP		114	30.4-154		%Rec	1	9/18/2020 7:22:26 PM	55253
EPA MET	HOD 8260B: VOLATILES S	SHORT LIST						Analyst:	DJF
Benzene			ND	0.024		mg/Kg	1	9/19/2020 5:30:58 AM	55245
Toluene			ND	0.048		mg/Kg	1	9/19/2020 5:30:58 AM	55245
Ethylbenz	zene		ND	0.048		mg/Kg	1	9/19/2020 5:30:58 AM	55245
Xylenes,	Total		ND	0.095		mg/Kg	1	9/19/2020 5:30:58 AM	55245
Surr: 1,	,2-Dichloroethane-d4		92.5	70-130		%Rec	1	9/19/2020 5:30:58 AM	55245
Surr: 4	-Bromofluorobenzene		92.1	70-130		%Rec	1	9/19/2020 5:30:58 AM	55245
Surr: D	ibromofluoromethane		93.7	70-130		%Rec	1	9/19/2020 5:30:58 AM	55245
Surr: T	oluene-d8		97.4	70-130		%Rec	1	9/19/2020 5:30:58 AM	55245

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Page 9 of 44

2009980-010

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

 Client Sample ID: B-3 1-2'

 Com 2
 Collection Date: 9/15/2020 10:30:00 AM

 Matrix: SOIL
 Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	95	60	mg/Kg	20	9/23/2020 12:24:49 PM	55365
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2020 6:00:53 AM	55245
Surr: BFB	98.3	70-130	%Rec	1	9/19/2020 6:00:53 AM	55245
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	9/18/2020 7:32:27 PM	55253
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/18/2020 7:32:27 PM	55253
Surr: DNOP	128	30.4-154	%Rec	1	9/18/2020 7:32:27 PM	55253
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/19/2020 6:00:53 AM	55245
Toluene	ND	0.048	mg/Kg	1	9/19/2020 6:00:53 AM	55245
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2020 6:00:53 AM	55245
Xylenes, Total	ND	0.096	mg/Kg	1	9/19/2020 6:00:53 AM	55245
Surr: 1,2-Dichloroethane-d4	92.8	70-130	%Rec	1	9/19/2020 6:00:53 AM	55245
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	9/19/2020 6:00:53 AM	55245
Surr: Dibromofluoromethane	92.9	70-130	%Rec	1	9/19/2020 6:00:53 AM	55245
Surr: Toluene-d8	94.9	70-130	%Rec	1	9/19/2020 6:00:53 AM	55245

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 10 of 44

Diesel Range Organics (DRO)

Analytical Report Lab Order 2009980

9/18/2020 7:42:30 PM

55253

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		Client Sample ID: B-3 2-3' Com 2 Collection Date: 9/15/2020 10:40:00 AM					
Project:	Devon Energy Arabian 30-	19 Fed Com 2						
Lab ID:	2009980-011	Matrix: SOIL	Received Date: 9/17/2020 7:30:00 AM					
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride		ND	60	mg/Kg	20	9/23/2020 12:37:09 PM	55365	
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF	
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	9/19/2020 6:30:05 AM	55245	
Surr: I	BFB	99.8	70-130	%Rec	1	9/19/2020 6:30:05 AM	55245	
EPA MET	HOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	CLP	

10

mg/Kg

1

Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/18/2020 7:42:30 PM	55253
Surr: DNOP	175	30.4-154	S	%Rec	1	9/18/2020 7:42:30 PM	55253
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	DJF
Benzene	ND	0.023		mg/Kg	1	9/19/2020 6:30:05 AM	55245
Toluene	ND	0.047		mg/Kg	1	9/19/2020 6:30:05 AM	55245
Ethylbenzene	ND	0.047		mg/Kg	1	9/19/2020 6:30:05 AM	55245
Xylenes, Total	ND	0.094		mg/Kg	1	9/19/2020 6:30:05 AM	55245
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	9/19/2020 6:30:05 AM	55245
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/19/2020 6:30:05 AM	55245
Surr: Dibromofluoromethane	95.2	70-130		%Rec	1	9/19/2020 6:30:05 AM	55245
Surr: Toluene-d8	101	70-130		%Rec	1	9/19/2020 6:30:05 AM	55245

ND

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
- D Sample Diluted Due to MatrixH 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 11 of 44

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT	: Talon Artesia		Client Sample ID: B-3 3-4'					
Project:Devon Energy Arabian 30-19 FLab ID:2009980-012		-19 Fed Com 2	Fed Com 2 Collection Date: 9/15/2020 10:50:00 AM					
		Matrix: SOIL	DIL Received Date: 9/17/2020 7:30:00 AM					
Analyses	8	Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analyst	: JMT	
Chloride)	ND	60	mg/Kg	20	9/23/2020 1:14:12 PM	55365	
EPA ME	THOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF	
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2020 6:59:26 AM	55245	
Surr:	BFB	96.0	70-130	%Rec	1	9/19/2020 6:59:26 AM	55245	
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	CLP	

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/18/2020 7:52:31 PM	55253
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/18/2020 7:52:31 PM	55253
Surr: DNOP	136	30.4-154	%Rec	1	9/18/2020 7:52:31 PM	55253
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/19/2020 6:59:26 AM	55245
Toluene	ND	0.048	mg/Kg	1	9/19/2020 6:59:26 AM	55245
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2020 6:59:26 AM	55245
Xylenes, Total	ND	0.096	mg/Kg	1	9/19/2020 6:59:26 AM	55245
Surr: 1,2-Dichloroethane-d4	95.6	70-130	%Rec	1	9/19/2020 6:59:26 AM	55245
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	9/19/2020 6:59:26 AM	55245
Surr: Dibromofluoromethane	95.4	70-130	%Rec	1	9/19/2020 6:59:26 AM	55245
Surr: Toluene-d8	99.9	70-130	%Rec	1	9/19/2020 6:59:26 AM	55245

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 44

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia		Client Sample ID: B-4 0-1' Collection Date: 9/15/2020 11:00:00 AM						
Project: Devon Energy Arabian 30-19	Fed Com 2							
Lab ID: 2009980-013	Matrix: SOIL		Recei	ved Dat	e: 9/1	17/2020 7:30:00 AM		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: JMT	
Chloride	120	59		mg/Kg	20	9/23/2020 1:26:33 PM	55365	
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	DJF	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2020 7:28:39 AM	55245	
Surr: BFB	98.0	70-130		%Rec	1	9/19/2020 7:28:39 AM	55245	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	CLP	
Diesel Range Organics (DRO)	28	9.0		mg/Kg	1	9/18/2020 8:02:25 PM	55253	
Motor Oil Range Organics (MRO)	180	45		mg/Kg	1	9/18/2020 8:02:25 PM	55253	
Surr: DNOP	165	30.4-154	S	%Rec	1	9/18/2020 8:02:25 PM	55253	
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst	DJF	
Benzene	ND	0.024		mg/Kg	1	9/19/2020 7:28:39 AM	55245	
Toluene	ND	0.048		mg/Kg	1	9/19/2020 7:28:39 AM	55245	

ND

ND

95.3

96.8

98.5

97.9

0.048

0.096

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

9/19/2020 7:28:39 AM

55245

55245

55245

55245

55245

55245

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
- 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 44

2009980-014

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-4 1-2' Devon Energy Arabian 30-19 Fed Com 2 Collection Date: 9/15/2020 11:10:00 AM Matrix: SOIL Received Date: 9/17/2020 7:30:00 AM **RL** Oual Units DF Date Analyzed Result Batch

7 mary ses	Result	KL	Qua	Omts	DI	Date Maryzed	Daten
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	200	60		mg/Kg	20	9/23/2020 1:38:54 PM	55365
EPA METHOD 8015D MOD: GASOLINE RANGE						Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/19/2020 7:57:51 AM	55245
Surr: BFB	98.2	70-130		%Rec	1	9/19/2020 7:57:51 AM	55245
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analys	t: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/18/2020 8:12:28 PM	55253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/18/2020 8:12:28 PM	55253
Surr: DNOP	158	30.4-154	S	%Rec	1	9/18/2020 8:12:28 PM	55253
EPA METHOD 8260B: VOLATILES SHORT LIST						Analys	t: DJF
Benzene	ND	0.023		mg/Kg	1	9/19/2020 7:57:51 AM	55245
Toluene	ND	0.046		mg/Kg	1	9/19/2020 7:57:51 AM	55245
Ethylbenzene	ND	0.046		mg/Kg	1	9/19/2020 7:57:51 AM	55245
Xylenes, Total	ND	0.093		mg/Kg	1	9/19/2020 7:57:51 AM	55245
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%Rec	1	9/19/2020 7:57:51 AM	55245
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	9/19/2020 7:57:51 AM	55245
Surr: Dibromofluoromethane	91.6	70-130		%Rec	1	9/19/2020 7:57:51 AM	55245
Surr: Toluene-d8	99.8	70-130		%Rec	1	9/19/2020 7:57:51 AM	55245

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 14 of 44

2009980-015

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

 Client Sample ID: B-4 2-3'

 Com 2
 Collection Date: 9/15/2020 11:20:00 AM

 Matrix: SOIL
 Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	430	60	mg/Kg	20	9/23/2020 1:51:14 PM	55365
EPA METHOD 8015D MOD: GASOLINE RANGE	1				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/19/2020 1:33:52 PM	55245
Surr: BFB	99.6	70-130	%Rec	1	9/19/2020 1:33:52 PM	55245
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	9/18/2020 8:22:28 PM	55253
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/18/2020 8:22:28 PM	55253
Surr: DNOP	118	30.4-154	%Rec	1	9/18/2020 8:22:28 PM	55253
EPA METHOD 8260B: VOLATILES SHORT LIST	г				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/19/2020 1:33:52 PM	55245
Toluene	ND	0.048	mg/Kg	1	9/19/2020 1:33:52 PM	55245
Ethylbenzene	ND	0.048	mg/Kg	1	9/19/2020 1:33:52 PM	55245
Xylenes, Total	ND	0.096	mg/Kg	1	9/19/2020 1:33:52 PM	55245
Surr: 1,2-Dichloroethane-d4	86.0	70-130	%Rec	1	9/19/2020 1:33:52 PM	55245
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	9/19/2020 1:33:52 PM	55245
Surr: Dibromofluoromethane	89.0	70-130	%Rec	1	9/19/2020 1:33:52 PM	55245
Surr: Toluene-d8	99.3	70-130	%Rec	1	9/19/2020 1:33:52 PM	55245

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
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit
- NDNot Detected at the ReportingPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 15 of 44

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: DNOP

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/18/2020 8:32:31 PM

9/18/2020 8:32:31 PM

9/18/2020 8:32:31 PM

9/19/2020 2:03:35 PM

Analyst: CLP

Analyst: DJF

55253

55253

55253

55245

55245

55245

55245

55245

55245

55245

55245

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

EPA METHOD 8260B: VOLATILES SHORT LIST

CLIENT:	Talon Artesia		Client Sample ID: B-4 3-4'					
Project:	Devon Energy Arabian 3	0-19 Fed Com 2	(Collection Dat	e: 9 /]	15/2020 11:30:00 AM		
Lab ID:	2009980-016	Matrix: SOIL		Received Dat	e: 9 /1	17/2020 7:30:00 AM		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride		520	60	mg/Kg	20	9/23/2020 2:03:34 PM	55365	
EPA ME	THOD 8015D MOD: GASO	LINE RANGE				Analyst	DJF	
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	9/19/2020 2:03:35 PM	55245	
Surr:	BFB	94.9	70-130	%Rec	1	9/19/2020 2:03:35 PM	55245	

8.7

43

30.4-154

0.025

0.049

0.049

0.098

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

1

1

1

ND

ND

114

ND

ND

ND

ND

89.4

90.6

89.0

96.4

Refer to the QC Summary report and sample login checklist for flagged QC data and prese

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 ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 16 of 44

Surr: Toluene-d8

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/19/2020 2:33:09 PM

55245

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia		Cl	ient Sample II): B-	5 0-1'	
Project: Devon Energy Arabian 30-19 Fee	d Com 2	(Collection Date	e: 9/1	15/2020 11:40:00 AM	
Lab ID: 2009980-017	Matrix: SOIL		Received Dat	e: 9/1	17/2020 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1100	60	mg/Kg	20	9/23/2020 2:15:55 PM	55365
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/19/2020 2:33:09 PM	55245
Surr: BFB	97.2	70-130	%Rec	1	9/19/2020 2:33:09 PM	55245
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/18/2020 8:42:46 PM	55253
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/18/2020 8:42:46 PM	55253
Surr: DNOP	142	30.4-154	%Rec	1	9/18/2020 8:42:46 PM	55253
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	9/19/2020 2:33:09 PM	55245
Toluene	ND	0.046	mg/Kg	1	9/19/2020 2:33:09 PM	55245
Ethylbenzene	ND	0.046	mg/Kg	1	9/19/2020 2:33:09 PM	55245
Xylenes, Total	ND	0.092	mg/Kg	1	9/19/2020 2:33:09 PM	55245
Surr: 1,2-Dichloroethane-d4	88.3	70-130	%Rec	1	9/19/2020 2:33:09 PM	55245
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	9/19/2020 2:33:09 PM	55245
Surr: Dibromofluoromethane	88.7	70-130	%Rec	1	9/19/2020 2:33:09 PM	55245

98.8

70-130

%Rec

1

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Page 17 of 44

2009980-018

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Energy Arabian 30-19 Fed Com 2

Client Sample ID: B-5 1-2' Collection Date: 9/15/2020 11:50:00 AM Received Date: 9/17/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	3800	150	mg/Kg	50	9/23/2020 2:28:16 PM	55365
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/19/2020 3:02:48 PM	55245
Surr: BFB	97.8	70-130	%Rec	1	9/19/2020 3:02:48 PM	55245
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/18/2020 8:52:55 PM	55253
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/18/2020 8:52:55 PM	55253
Surr: DNOP	101	30.4-154	%Rec	1	9/18/2020 8:52:55 PM	55253
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	9/19/2020 3:02:48 PM	55245
Toluene	ND	0.047	mg/Kg	1	9/19/2020 3:02:48 PM	55245
Ethylbenzene	ND	0.047	mg/Kg	1	9/19/2020 3:02:48 PM	55245
Xylenes, Total	ND	0.095	mg/Kg	1	9/19/2020 3:02:48 PM	55245
Surr: 1,2-Dichloroethane-d4	88.8	70-130	%Rec	1	9/19/2020 3:02:48 PM	55245
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	9/19/2020 3:02:48 PM	55245
Surr: Dibromofluoromethane	93.0	70-130	%Rec	1	9/19/2020 3:02:48 PM	55245
Surr: Toluene-d8	97.7	70-130	%Rec	1	9/19/2020 3:02:48 PM	55245

Matrix: SOIL

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 44

2009980-019

Project:

Lab ID:

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-5 2-3' Devon Energy Arabian 30-19 Fed Com 2 Collection Date: 9/15/2020 12:00:00 PM Matrix: SOIL Received Date: 9/17/2020 7:30:00 AM Result Qual Units DF Date Analyzed пτ Ratch

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	880	59	mg/Kg	20	9/23/2020 2:40:37 PM	55365
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/19/2020 3:32:27 PM	55245
Surr: BFB	99.4	70-130	%Rec	1	9/19/2020 3:32:27 PM	55245
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/18/2020 9:03:07 PM	55253
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/18/2020 9:03:07 PM	55253
Surr: DNOP	117	30.4-154	%Rec	1	9/18/2020 9:03:07 PM	55253
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	9/19/2020 3:32:27 PM	55245
Toluene	ND	0.046	mg/Kg	1	9/19/2020 3:32:27 PM	55245
Ethylbenzene	ND	0.046	mg/Kg	1	9/19/2020 3:32:27 PM	55245
Xylenes, Total	ND	0.093	mg/Kg	1	9/19/2020 3:32:27 PM	55245
Surr: 1,2-Dichloroethane-d4	90.7	70-130	%Rec	1	9/19/2020 3:32:27 PM	55245
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	9/19/2020 3:32:27 PM	55245
Surr: Dibromofluoromethane	90.5	70-130	%Rec	1	9/19/2020 3:32:27 PM	55245
Surr: Toluene-d8	98.7	70-130	%Rec	1	9/19/2020 3:32:27 PM	55245

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 Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 19 of 44

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 2:04:38 AM

9/20/2020 2:04:38 AM

55251

55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		Cl	ient Sample II): B-	5 3-4'		
Project:	Devon Energy Arabian 30	-19 Fed Com 2	Collection Date: 9/15/2020 12:10:00 PM					
Lab ID:	2009980-020	Matrix: SOIL	Received Date: 9/17/2020 7:30:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: JMT	
Chloride		640	60	mg/Kg	20	9/23/2020 2:52:58 PM	55365	
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst	CLP	
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	9/18/2020 9:13:13 PM	55253	
Motor Oi	I Range Organics (MRO)	ND	50	mg/Kg	1	9/18/2020 9:13:13 PM	55253	
Surr: I	DNOP	133	30.4-154	%Rec	1	9/18/2020 9:13:13 PM	55253	
EPA MET	THOD 8015D: GASOLINE F	RANGE				Analyst	: NSB	
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	9/20/2020 2:04:38 AM	55251	
Surr: I	BFB	89.4	75.3-105	%Rec	1	9/20/2020 2:04:38 AM	55251	
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB	
Benzene)	ND	0.023	mg/Kg	1	9/20/2020 2:04:38 AM	55251	
Toluene		ND	0.046	mg/Kg	1	9/20/2020 2:04:38 AM	55251	
Ethylben	zene	ND	0.046	mg/Kg	1	9/20/2020 2:04:38 AM	55251	

ND

97.3

0.093

80-120

mg/Kg

%Rec

1

1

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 20 of 44

Surr: 4-Bromofluorobenzene

Analytical Report
Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 3:15:31 AM 55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Project: Devon Energy Arabian 30-19	Fed Com 2	Client Sample ID: B-6 0-1' Collection Date: 9/15/2020 12:20:00 PM					
Lab ID: 2009980-021	Matrix: SOIL						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride	1900	60	mg/Kg	20	9/23/2020 3:05:19 PM	55365	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	37	8.5	mg/Kg	1	9/18/2020 9:23:24 PM	55253	
Motor Oil Range Organics (MRO)	130	43	mg/Kg	1	9/18/2020 9:23:24 PM	55253	
Surr: DNOP	113	30.4-154	%Rec	1	9/18/2020 9:23:24 PM	55253	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/20/2020 3:15:31 AM	55251	
Surr: BFB	89.5	75.3-105	%Rec	1	9/20/2020 3:15:31 AM	55251	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	9/20/2020 3:15:31 AM	55251	
Toluene	ND	0.050	mg/Kg	1	9/20/2020 3:15:31 AM	55251	
Ethylbenzene	ND	0.050	mg/Kg	1	9/20/2020 3:15:31 AM	55251	
Xylenes, Total	ND	0.10	mg/Kg	1	9/20/2020 3:15:31 AM	55251	

98.0

80-120

%Rec

1

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 21 of 44

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

	0,				1	
CLIENT: Talon Artesia Project: Devon Energy Arabian 30-19	Fed Com 2		lient Sample II		6 1-2' 5/2020 12:30:00 PM	
•						
Lab ID: 2009980-022	Matrix: SOIL		Received Dat	e: 9/1	7/2020 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JMT
Chloride	620	60	mg/Kg	20	9/23/2020 3:42:21 PM	55365
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	: CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/18/2020 9:33:34 PM	55253
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/18/2020 9:33:34 PM	55253
Surr: DNOP	149	30.4-154	%Rec	1	9/18/2020 9:33:34 PM	55253
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/20/2020 4:25:48 AM	55251
Surr: BFB	90.3	75.3-105	%Rec	1	9/20/2020 4:25:48 AM	55251
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	9/20/2020 4:25:48 AM	55251
Toluene	ND	0.048	mg/Kg	1	9/20/2020 4:25:48 AM	55251

ND

ND

101

0.048

0.095

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

9/20/2020 4:25:48 AM

9/20/2020 4:25:48 AM

9/20/2020 4:25:48 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 44

55251

55251

55251

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia		Cl	ient Sa	ample II	D: B-	6 2-3'	
Project: Devon Energy Arabian 30-19	Fed Com 2	(Collect	ion Dat	e: 9 /1	15/2020 12:40:00 PM	
Lab ID: 2009980-023	Matrix: SOIL		Recei	ved Dat	e: 9 /1	17/2020 7:30:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	820	60		mg/Kg	20	9/23/2020 3:54:41 PM	55365
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/18/2020 9:43:43 PM	55253
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/18/2020 9:43:43 PM	55253
Surr: DNOP	155	30.4-154	S	%Rec	1	9/18/2020 9:43:43 PM	55253
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/20/2020 4:49:10 AM	55251
Surr: BFB	85.3	75.3-105		%Rec	1	9/20/2020 4:49:10 AM	55251
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	9/20/2020 4:49:10 AM	55251
Toluene	ND	0.047		mg/Kg	1	9/20/2020 4:49:10 AM	55251

ND

ND

99.9

0.047

0.094

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

9/20/2020 4:49:10 AM

9/20/2020 4:49:10 AM

9/20/2020 4:49:10 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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 44

55251

55251

55251

Date Reported: 9/25/2020

9/20/2020 5:12:52 AM

9/20/2020 5:12:52 AM

9/20/2020 5:12:52 AM

9/20/2020 5:12:52 AM

55251

55251

55251

55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia		Client Sample ID: B-6 3-4' Collection Date: 9/15/2020 12:50:00 PM					
Project: Devon Energy Arabian 30-19 F	Fed Com 2						
Lab ID: 2009980-024	Matrix: SOIL		Received Dat	e: 9 /	17/2020 7:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride	460	60	mg/Kg	20	9/23/2020 4:07:01 PM	55365	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: CLP	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/18/2020 9:53:49 PM	55253	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/18/2020 9:53:49 PM	55253	
Surr: DNOP	133	30.4-154	%Rec	1	9/18/2020 9:53:49 PM	55253	
EPA METHOD 8015D: GASOLINE RANG	ЭЕ				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/20/2020 5:12:52 AM	55251	
Surr: BFB	88.1	75.3-105	%Rec	1	9/20/2020 5:12:52 AM	55251	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	9/20/2020 5:12:52 AM	55251	

ND

ND

ND

99.4

0.047

0.047

0.095

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

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

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
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limitsP Sample pH Not In Range
- RL Reporting Limit

Page 24 of 44

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Project: Devon Energy Arabian 30-19 Fee	l Com 2	Client Sample ID: B-7 0-1' Collection Date: 9/15/2020 1:00:00 PM DIL Received Date: 9/17/2020 7:30:00 AM					
Lab ID: 2009980-025	Matrix: SOIL						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT	
Chloride	410	60	mg/Kg	20	9/23/2020 4:19:23 PM	55365	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	9/18/2020 10:03:53 PM	55253	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/18/2020 10:03:53 PM	55253	
Surr: DNOP	97.5	30.4-154	%Rec	1	9/18/2020 10:03:53 PM	55253	
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/20/2020 5:36:37 AM	55251	
Surr: BFB	90.5	75.3-105	%Rec	1	9/20/2020 5:36:37 AM	55251	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.025	mg/Kg	1	9/20/2020 5:36:37 AM	55251	
Toluene	ND	0.050	mg/Kg	1	9/20/2020 5:36:37 AM	55251	
Ethylbenzene	ND	0.050	mg/Kg	1	9/20/2020 5:36:37 AM	55251	
Xylenes, Total	ND	0.099	mg/Kg	1	9/20/2020 5:36:37 AM	55251	
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	9/20/2020 5:36:37 AM	55251	

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Page 25 of 44

Date Reported: 9/25/2020

9/20/2020 6:00:24 AM

9/20/2020 6:00:24 AM

9/20/2020 6:00:24 AM

9/20/2020 6:00:24 AM

55251

55251

55251

55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia		Cl	ient S	ample I	D: B-	7 1-2'	
Project: Devon Energy Arabian 30-19 F	Fed Com 2	Collection Date: 9/15/2020 1:10:00 PM					
Lab ID: 2009980-026	Matrix: SOIL		Rece	ived Dat	e: 9/1	17/2020 7:30:00 AM	
Analyses	Result	RL	Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	250	60		mg/Kg	20	9/23/2020 4:31:44 PM	55365
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/18/2020 10:13:59 PM	55253
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/18/2020 10:13:59 PM	55253
Surr: DNOP	156	30.4-154	S	%Rec	1	9/18/2020 10:13:59 PM	55253
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/20/2020 6:00:24 AM	55251
Surr: BFB	88.2	75.3-105		%Rec	1	9/20/2020 6:00:24 AM	55251
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	9/20/2020 6:00:24 AM	55251

ND

ND

ND

99.5

0.050

0.050

0.099

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

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

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Page 26 of 44

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

-	•				Ĩ	
CLIENT: Talon Artesia		Cl	ient Sample II	D: B-	-7 2-3'	
Project: Devon Energy Arabian 30-19 Fe	Project: Devon Energy Arabian 30-19 Fed Com 2		Collection Dat	e: 9/	15/2020 1:20:00 PM	
Lab ID: 2009980-027	Matrix: SOIL Received Date: 9/17/2020 7:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	470	60	mg/Kg	20	9/23/2020 4:44:04 PM	55365
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/18/2020 10:24:03 PM	55253
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/18/2020 10:24:03 PM	55253
Surr: DNOP	137	30.4-154	%Rec	1	9/18/2020 10:24:03 PM	55253
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/20/2020 6:23:42 AM	55251

	ND	7.7	iiig/itg		0/20/2020 0.20.42 / 111	00201
Surr: BFB	93.2	75.3-105	%Rec	1	9/20/2020 6:23:42 AM	55251
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	9/20/2020 6:23:42 AM	55251
Toluene	ND	0.047	mg/Kg	1	9/20/2020 6:23:42 AM	55251
Ethylbenzene	ND	0.047	mg/Kg	1	9/20/2020 6:23:42 AM	55251
Xylenes, Total	ND	0.094	mg/Kg	1	9/20/2020 6:23:42 AM	55251
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	9/20/2020 6:23:42 AM	55251

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 27 of 44

Date Reported: 9/25/2020

9/20/2020 6:47:18 AM

9/20/2020 6:47:18 AM

55251

55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: 7	Talon Artesia		Client Sample ID: B-7 3-4'						
Project:	Devon Energy Arabian 30-19	Fed Com 2	Collection Date: 9/15/2020 1:30:00 PM						
Lab ID:	2009980-028	Matrix: SOIL		Receiv	ved Dat	e: 9/1	7/2020 7:30:00 AM		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METH	OD 300.0: ANIONS						Analyst	: JMT	
Chloride		460	60		mg/Kg	20	9/22/2020 11:41:28 PM	55370	
EPA METH	OD 8015M/D: DIESEL RANG	SE ORGANICS					Analyst	: mb	
Diesel Rar	nge Organics (DRO)	ND	9.8		mg/Kg	1	9/19/2020 3:01:19 PM	55263	
Motor Oil I	Range Organics (MRO)	ND	49		mg/Kg	1	9/19/2020 3:01:19 PM	55263	
Surr: DI	NOP	110	30.4-154		%Rec	1	9/19/2020 3:01:19 PM	55263	
EPA METH	IOD 8015D: GASOLINE RAN	GE					Analyst	: NSB	
Gasoline F	Range Organics (GRO)	ND	4.7		mg/Kg	1	9/20/2020 6:47:18 AM	55251	
Surr: BF	ΞВ	88.4	75.3-105		%Rec	1	9/20/2020 6:47:18 AM	55251	
EPA METH	OD 8021B: VOLATILES						Analyst	: NSB	
Benzene		ND	0.023		mg/Kg	1	9/20/2020 6:47:18 AM	55251	
Toluene		ND	0.047		mg/Kg	1	9/20/2020 6:47:18 AM	55251	
Ethylbenze	ene	ND	0.047		mg/Kg	1	9/20/2020 6:47:18 AM	55251	

ND

99.3

0.094

80-120

mg/Kg

%Rec

1

1

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

Page 28 of 44

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 7:10:54 AM 55251

Hall Environmental Analysis Laboratory, Inc.

€⁄	U ,					0
CLIENT: Talon Artesia			ient Sample II			
Project: Devon Energy Arabian 30-19 Fe	ed Com 2	(Collection Dat	e: 9/1	5/2020 1:40:00 PM	
Lab ID: 2009980-029	Matrix: SOIL Received Date: 9/17/2020 7:30:00 AN					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	730	60	mg/Kg	20	9/23/2020 12:43:31 AM	55370
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/19/2020 3:30:54 PM	55263
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/19/2020 3:30:54 PM	55263
Surr: DNOP	106	30.4-154	%Rec	1	9/19/2020 3:30:54 PM	55263
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/20/2020 7:10:54 AM	55251
Surr: BFB	88.7	75.3-105	%Rec	1	9/20/2020 7:10:54 AM	55251
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	9/20/2020 7:10:54 AM	55251
Toluene	ND	0.049	mg/Kg	1	9/20/2020 7:10:54 AM	55251
Ethylbenzene	ND	0.049	mg/Kg	1	9/20/2020 7:10:54 AM	55251
Xylenes, Total	ND	0.098	mg/Kg	1	9/20/2020 7:10:54 AM	55251

98.4

80-120

%Rec

1

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
- D Sample Diluted Due to MatrixH 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 29 of 44

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

Hall Environmental Analysis Laboratory, Inc.

	Client Sample ID: B-8 1-2'						
ed Com 2	(Collection Da	te: 9/2	15/2020 1:50:00 PM			
Matrix: SOIL		Received Da	te: 9/1	17/2020 7:30:00 AM			
Result	RL	Qual Units	DF	Date Analyzed	Batch		
				Analyst	: JMT		
120	59	mg/Kg	20	9/23/2020 12:55:55 AM	55370		
ORGANICS				Analyst	: mb		
ND	9.9	mg/Kg	1	9/19/2020 3:40:43 PM	55263		
ND	49	mg/Kg	1	9/19/2020 3:40:43 PM	55263		
102	30.4-154	%Rec	1	9/19/2020 3:40:43 PM	55263		
E				Analyst	: NSB		
ND	4.8	mg/Kg	1	9/20/2020 8:21:28 AM	55251		
90.0	75.3-105	%Rec	1	9/20/2020 8:21:28 AM	55251		
				Analyst	: NSB		
ND	0.024	mg/Kg	1	9/20/2020 8:21:28 AM	55251		
ND	0.048	mg/Kg	1	9/20/2020 8:21:28 AM	55251		
	Matrix: SOIL Result 120 CORGANICS ND 102 E ND 90.0 ND	ed Com 2 Matrix: SOIL Result RL 120 59 120 59 120 59 120 59 120 30 120 59 120 30 120 59 120 59 100 9.9 102 30.4-154 E ND 4.8 90.0 75.3-105 ND 0.024	ed Com 2 Matrix: SOIL Collection Data Matrix: SOIL Result Result 120 59 mg/Kg 120 59 mg/Kg ND 49 mg/Kg 102 30.4-154 %Rec E ND 4.8 mg/Kg 90.0 75.3-105 %Rec	ed Com 2 Collection Date: 9/ Matrix: SOIL Received Date: 9/ Result RL Qual Units DF 120 59 mg/Kg 20 120 59 mg/Kg 1 120 59 mg/Kg 1 120 59 mg/Kg 1 120 30.9.9 mg/Kg 1 ND 4.9 mg/Kg 1 102 30.4-154 %Rec 1 E ND 4.8 mg/Kg 1 ND 4.8 mg/Kg 1 90.0 75.3-105 %Rec 1 ND 0.024 mg/Kg 1	ed Com 2 Collection Date: 9/15/2020 1:50:00 PM Matrix: SOIL Received Date: 9/17/2020 7:30:00 AM Result RL Qual Units DF Date Analyzed Result RL Qual Units DF Date Analyzed 120 59 mg/Kg 20 9/23/2020 12:55:55 AM 120 59 mg/Kg 1 9/19/2020 3:40:43 PM ND 9.9 mg/Kg 1 9/19/2020 3:40:43 PM ND 49 mg/Kg 1 9/19/2020 3:40:43 PM 102 30.4-154 %Rec 1 9/19/2020 3:40:43 PM MD 49 mg/Kg 1 9/19/2020 3:40:43 PM MD 43 Mg/Kg 1 9/19/2020 3:40:43 PM MD 4.8 mg/Kg 1 9/20/2020 8:21:28 AM MD 4.8 mg/Kg 1 9/20/2020 8:21:28 AM MD 0.024 mg/Kg 1 9/20/2020 8:21:28 AM		

ND

ND

101

0.048

0.096

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

9/20/2020 8:21:28 AM

9/20/2020 8:21:28 AM

9/20/2020 8:21:28 AM

55251

55251

55251

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
- D Sample Diluted Due to MatrixH 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

Page 30 of 44

Date Reported: 9/25/2020

9/20/2020 8:45:06 AM

9/20/2020 8:45:06 AM

55251

55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Project: Devon Energy Arabian 30-19	Fed Com 2		ient Sample II		8 2-3' 15/2020 2:00:00 PM	
Lab ID: 2009980-031	Matrix: SOIL	,	17/2020 7:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	61	mg/Kg	20	9/23/2020 1:08:20 AM	55370
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/19/2020 3:50:31 PM	55263
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/19/2020 3:50:31 PM	55263
Surr: DNOP	107	30.4-154	%Rec	1	9/19/2020 3:50:31 PM	55263
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/20/2020 8:45:06 AM	55251
Surr: BFB	88.3	75.3-105	%Rec	1	9/20/2020 8:45:06 AM	55251
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/20/2020 8:45:06 AM	55251
Toluene	ND	0.047	mg/Kg	1	9/20/2020 8:45:06 AM	55251
Ethylbenzene	ND	0.047	mg/Kg	1	9/20/2020 8:45:06 AM	55251

ND

100

0.094

80-120

mg/Kg

%Rec

1

1

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 31 of 44

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 9:08:42 AM 55251

Hall Environmental Analysis Laboratory, Inc.

Project: 1	Talon Artesia Devon Energy Arabian 30-19 F 2009980-032	ed Com 2 Matrix: SOIL	С		e: 9/]	8 3-4' 15/2020 2:10:00 PM 17/2020 7:30:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	IOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	9/23/2020 1:20:44 AM	55370
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst	: mb
Diesel Rar	nge Organics (DRO)	ND	9.7	mg/Kg	1	9/19/2020 4:00:19 PM	55263
Motor Oil F	Range Organics (MRO)	ND	49	mg/Kg	1	9/19/2020 4:00:19 PM	55263
Surr: DN	NOP	109	30.4-154	%Rec	1	9/19/2020 4:00:19 PM	55263
EPA METH	IOD 8015D: GASOLINE RANG	Ε				Analyst	NSB
Gasoline F	Range Organics (GRO)	ND	4.9	mg/Kg	1	9/20/2020 9:08:42 AM	55251
Surr: BF	В	90.2	75.3-105	%Rec	1	9/20/2020 9:08:42 AM	55251
EPA METH	IOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.025	mg/Kg	1	9/20/2020 9:08:42 AM	55251
Toluene		ND	0.049	mg/Kg	1	9/20/2020 9:08:42 AM	55251
Ethylbenze	ene	ND	0.049	mg/Kg	1	9/20/2020 9:08:42 AM	55251
Xylenes, T	otal	ND	0.099	mg/Kg	1	9/20/2020 9:08:42 AM	55251

99.6

80-120

%Rec

1

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 32 of 44

Surr: 4-Bromofluorobenzene

Analytical Report
Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 9:32:23 AM 55251

Hall Environmental Analysis Laboratory, Inc.

	Talon Artesia	Client Sample ID: B-9 0-1' Collection Date: 9/15/2020 2:20:00 PM						
Project:	Devon Energy Arabian 30-19 Fed Com 2							
Lab ID:	2009980-033	Matrix: SOIL	Received Date: 9/17/2020 7:30:00 AM					
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METH	HOD 300.0: ANIONS						Analyst	: ЈМТ
Chloride		61	60		mg/Kg	20	9/23/2020 1:33:08 AM	55370
EPA METH	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM
Diesel Ra	nge Organics (DRO)	4200	500		mg/Kg	50	9/22/2020 8:42:44 PM	55263
Motor Oil	Range Organics (MRO)	23000	2500		mg/Kg	50	9/22/2020 8:42:44 PM	55263
Surr: D	NOP	0	30.4-154	S	%Rec	50	9/22/2020 8:42:44 PM	55263
EPA METH	HOD 8015D: GASOLINE RANG	E					Analyst	: NSB
Gasoline I	Range Organics (GRO)	ND	4.7		mg/Kg	1	9/20/2020 9:32:23 AM	55251
Surr: B	FB	86.4	75.3-105		%Rec	1	9/20/2020 9:32:23 AM	55251
EPA METHOD 8021B: VOLATILES							Analyst	: NSB
Benzene		ND	0.023		mg/Kg	1	9/20/2020 9:32:23 AM	55251
Toluene		ND	0.047		mg/Kg	1	9/20/2020 9:32:23 AM	55251
Ethylbenz	ene	ND	0.047		mg/Kg	1	9/20/2020 9:32:23 AM	55251
Xylenes, 1	Total	ND	0.094		mg/Kg	1	9/20/2020 9:32:23 AM	55251

99.0

80-120

%Rec

1

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
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceed
- H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit
- NDNot Detected at the Reporting IPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 33 of 44

55251

55251

55251

55251

55251

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 9:56:03 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		Clier	nt Sample II): B-	9 1-2'	
Project:	Devon Energy Arabian 30-19 H	Co	llection Dat	e: 9/1	15/2020 2:30:00 PM		
Lab ID:	2009980-034	Matrix: SOIL	R	eceived Dat	e: 9/1	17/2020 7:30:00 AM	
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride		ND	60	mg/Kg	20	9/23/2020 1:45:32 AM	55370
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: mb
Diesel R	ange Organics (DRO)	ND	9.9	mg/Kg	1	9/19/2020 4:19:52 PM	55263
Motor Oi	l Range Organics (MRO)	ND	50	mg/Kg	1	9/19/2020 4:19:52 PM	55263
Surr: I	ONOP	143	30.4-154	%Rec	1	9/19/2020 4:19:52 PM	55263
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	9/20/2020 9:56:03 AM	55251
Surr: I	BFB	86.6	75.3-105	%Rec	1	9/20/2020 9:56:03 AM	55251
EPA MET	HOD 8021B: VOLATILES					Analyst	II NSB

ND

ND

ND

ND

98.7

0.023

0.047

0.047

0.093

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

Page 34 of 44

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 10:19:47 AM 55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: T		Com 2		ient Sample		9 2-3' 15/2020 2:40:00 PM	
•	Devon Energy Arabian 30-19 Fed		•				
Lab ID: 2	.009980-035	Matrix: SOIL		Received Da	ite: 9/	17/2020 7:30:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	OD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	, 20	9/23/2020 1:57:57 AM	55370
EPA METH	OD 8015M/D: DIESEL RANGE (ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)		ND	9.8	mg/Kg	, 1	9/19/2020 4:29:37 PM	55263
Motor Oil R	ange Organics (MRO)	ND	49	mg/Kg	, 1	9/19/2020 4:29:37 PM	55263
Surr: DN	IOP	113	30.4-154	%Rec	1	9/19/2020 4:29:37 PM	55263
EPA METH	OD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline R	ange Organics (GRO)	ND	5.0	mg/Kg	, 1	9/20/2020 10:19:47 AM	55251
Surr: BF	В	89.6	75.3-105	%Rec	1	9/20/2020 10:19:47 AM	55251
EPA METH	OD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.025	mg/Kg	, 1	9/20/2020 10:19:47 AM	55251
Toluene		ND	0.050	mg/Kg	j 1	9/20/2020 10:19:47 AM	55251
Ethylbenze	ne	ND	0.050	mg/Kg	, 1	9/20/2020 10:19:47 AM	55251
Xylenes, To	otal	ND	0.10	mg/Kg	, 1	9/20/2020 10:19:47 AM	55251

100

80-120

%Rec

1

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

Page 35 of 44

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2009980

Date Reported: 9/25/2020

9/20/2020 10:43:35 AM 55251

9/20/2020 10:43:35 AM 55251

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Project: Devon Energy Arabian 30-19	Fed Com 2		ient Sample II Collection Dat		9 3-4' 15/2020 2:50:00 PM	
Lab ID: 2009980-036	Matrix: SOIL		Received Dat	e: 9 /1	17/2020 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	9/23/2020 2:10:22 AM	55370
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	t: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/19/2020 4:39:22 PM	55263
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/19/2020 4:39:22 PM	55263
Surr: DNOP	101	30.4-154	%Rec	1	9/19/2020 4:39:22 PM	55263
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/20/2020 10:43:35 AN	55251
Surr: BFB	87.4	75.3-105	%Rec	1	9/20/2020 10:43:35 AN	I 55251
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/20/2020 10:43:35 AN	55251
Toluene	ND	0.050	mg/Kg	1	9/20/2020 10:43:35 AN	I 55251
Ethylbenzene	ND	0.050	mg/Kg	1	9/20/2020 10:43:35 AN	55251

ND

99.6

0.099

80-120

mg/Kg

%Rec

1

1

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
- D Sample Diluted Due to MatrixH 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- JAnalyte detected below quantitation limitsPSample pH Not In Range
- RL Reporting Limit

Page 36 of 44

QC SUMMARY REPORT Ha

Iall Environmental Analysis Laboratory, Inc.		25-Sep-20
	WO#:	2009980

Client:Talon AProject:Devon D	rtesia Energy Arabian 30-19 Fed Con	n 2H					
Sample ID: MB-55370	SampType: mblk	TestCode: EPA Method 300.0: Anions					
Client ID: PBS	Batch ID: 55370	RunNo: 72041					
Prep Date: 9/22/2020	Analysis Date: 9/22/2020	SeqNo: 2524536	Units: mg/Kg				
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Sample ID: LCS-55370	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID: LCSS	Batch ID: 55370	RunNo: 72041					
Prep Date: 9/22/2020	Analysis Date: 9/22/2020	SeqNo: 2524537	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	14 1.5 15.00	0 91.9 90	110				
Sample ID: MB-55353	SampType: mblk	TestCode: EPA Method	300.0: Anions				
Client ID: PBS	Batch ID: 55353	RunNo: 72068					
Prep Date: 9/22/2020	Analysis Date: 9/22/2020	SeqNo: 2524903	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	ND 1.5						
Sample ID: LCS-55353	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID: LCSS	Batch ID: 55353	RunNo: 72068					
Prep Date: 9/22/2020	Analysis Date: 9/22/2020	SeqNo: 2524904	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	14 1.5 15.00	0 93.4 90	110				
Sample ID: MB-55365	SampType: mblk	TestCode: EPA Method	300.0: Anions				
Client ID: PBS	Batch ID: 55365	RunNo: 72108					
Prep Date: 9/22/2020	Analysis Date: 9/23/2020	SeqNo: 2526889	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	ND 1.5						
Sample ID: LCS-55365	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID: LCSS	Batch ID: 55365	RunNo: 72108					
Prep Date: 9/22/2020	Analysis Date: 9/23/2020	SeqNo: 2526890	Units: mg/Kg				
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	14 1.5 15.00	0 92.0 90	110				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Talon Artesia

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Devon En	nergy Arabian 30-19 Fed Cor	n 2H	
Sample ID: MB-55250	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55250	RunNo: 71976	
Prep Date: 9/17/2020	Analysis Date: 9/18/2020	SeqNo: 2519581	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	12 10.00	123 30.4	154
Sample ID: MB-55253	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55253	RunNo: 71976	
Prep Date: 9/17/2020	Analysis Date: 9/18/2020	SeqNo: 2519582	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	12 10.00	121 30.4	154
Sample ID: LCS-55250	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55250	RunNo: 71976	
Prep Date: 9/17/2020	Analysis Date: 9/18/2020	SeqNo: 2519584	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	65 10 50.00	0 129 70	130
Surr: DNOP	6.9 5.000	138 30.4	154
Sample ID: LCS-55253	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55253	RunNo: 71976	
Prep Date: 9/17/2020	Analysis Date: 9/18/2020	SeqNo: 2519585	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	61 10 50.00	0 122 70	130
Surr: DNOP	6.7 5.000	134 30.4	154
Sample ID: 2009980-008AMS	SampType: MS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: B-2 3-4'	Batch ID: 55253	RunNo: 71976	
Prep Date: 9/17/2020	Analysis Date: 9/18/2020	SeqNo: 2519648	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	52 9.5 47.57	3.724 102 47.4	136
Surr: DNOP	5.4 4.757	114 30.4	154

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 44

WO#: **2009980**

Talon Artesia

Client:

OC SUMMARY REPORT

QC SUMIMARY REPORT	WO#:	2009980
Hall Environmental Analysis Laboratory, Inc.		25-Sep-20

Project:	Devon En	ergy Arabi	an 30-	19 Fed Con	n 2H						
Sample ID: 2	2009980-008AMSD	SampTy	/pe: M \$	SD	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: E	B-2 3-4'	Batch ID: 55253			F	RunNo: 71976					
Prep Date:	9/17/2020	Analysis Da	ate: 9 /	18/2020	S	SeqNo: 2	:519651	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	51	9.2	45.83	3.724	103	47.4	136	2.54	43.4	
Surr: DNOP		5.4		4.583		118	30.4	154	0	0	
Sample ID: L	LCS-55263	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: L	LCSS	Batch	ID: 55	263	F	RunNo: 7	1994				
Prep Date:	9/18/2020	Analysis Da	ate: 9 /	19/2020	S	SeqNo: 2	520476	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	49	10	50.00	0	98.3	70	130			
Surr: DNOP		5.0		5.000		100	30.4	154			
Sample ID: N	MB-55263	SampTy	/pe: M	ЗLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: F	PBS	Batch ID: 55263			RunNo: 71994						
Prep Date:	9/18/2020	Analysis Da	ate: 9 /	19/2020	S	SeqNo: 2	520480	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	ND	10								
0	Organics (MRO)	ND	50								
Surr: DNOP		10		10.00		102	30.4	154			
Sample ID: 2	2009980-028AMS	SampTy	/pe: M \$	3	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: E	B-7 3-4'	Batch	ID: 55	263	F	RunNo: 7	1994				
Prep Date:	9/18/2020	Analysis Da	ate: 9 /	19/2020	5	SeqNo: 2	520602	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	50	9.8	49.16	3.788	93.4	47.4	136			
Surr: DNOP		5.2		4.916		105	30.4	154			
Sample ID: 2	2009980-028AMSD	SampTy	/pe: M \$	SD	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	B-7 3-4'	Batch	ID: 55	263	F	RunNo: 7	'1994				
Prep Date:	9/18/2020	Analysis Da	ate: 9 /	19/2020	S	SeqNo: 2	:520603	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
			0.0	40.00	3.788	110	47.4	400	04.0	40.4	
Diesel Range Or	ganics (DRO)	62	9.8	48.83	3.700	118	47.4	136	21.3	43.4	

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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT Hall En

Page	79	01	^c 116	
1 "8"	1.1	<i>vj</i>	110	

	WO#:	2009980
nvironmental Analysis Laboratory, Inc.		25-Sep-20

Client: Talon A Project: Devon H	rtesia Energy Arabian	1 30-19 Fed Co	m 2H						
Sample ID: mb-55251	SampType	: MBLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID	55251	F	RunNo: 71	1993				
Prep Date: 9/17/2020	Analysis Date	: 9/20/2020	S	SeqNo: 25	520138	Units: mg/K	g		
Analyte	Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 880	5.0)	88.0	75.3	105			
Sample ID: Ics-55251	SampType	e: LCS	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch ID	55251	F	RunNo: 7 1	1993				
Prep Date: 9/17/2020	Analysis Date	9/20/2020	S	SeqNo: 25	520139	Units: mg/K	g		
Analyte	Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0 25.00		86.8	72.5	106			
Surr: BFB	990	1000)	99.0	75.3	105			
Sample ID: 2009980-020ams	s SampType	e: MS	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: B-5 3-4'	Batch ID	55251	F	RunNo: 7 1	1993				
Prep Date: 9/17/2020	Analysis Date	9/20/2020	S	SeqNo: 25	520141	Units: mg/K	g		
Analyte	Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9 24.37	0	92.8	61.3	114			
Surr: BFB	970	974.7		99.6	75.3	105			
Sample ID: 2009980-020ams	d SampType	: MSD	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: B-5 3-4'	Batch ID	55251	F	RunNo: 7 1	1993				
Prep Date: 9/17/2020	Analysis Date	9/20/2020	5	SeqNo: 25	520142	Units: mg/K	g		
Analyte	Result P	QL SPK value	e SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8 24.04		95.1	61.3	114	1.11	20	
Surr: BFB	910	961.5	5	94.3	75.3	105	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 40 of 44

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Talon Artesia Devon Energy Ara	abian 30-	19 Fed Cor	n 2H							
Sample ID: mb-55	251 Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	tiles			
Client ID: PBS	Bat	ch ID: 55	251	F	RunNo: 7	1993					
Prep Date: 9/17/	2020 Analysis	Date: 9/	20/2020	S	SeqNo: 2	520197	Units: mg/k	٢g			
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-Bromofluorob	enzene 0.98		1.000		97.6	80	120				
Sample ID: LCS-5	5251 Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles			
Client ID: LCSS	Bat	ch ID: 55	251	F	RunNo: 7 ′	1993					
Prep Date: 9/17/	2020 Analysis	Date: 9/	20/2020	S	SeqNo: 2	520198	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.025	1.000	0	95.4	80	120				
Toluene	0.99	0.050	1.000	0	99.4	80	120				
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120				
Xylenes, Total	3.0	0.10	3.000	0	100	80	120				
Surr: 4-Bromofluorob	enzene 1.0		1.000		99.7	80	120				
Sample ID: 20099	80-021ams Samp	Type: MS	6	Tes	tCode: EF	PA Method	nod 8021B: Volatiles				
Client ID: B-6 0-	1' Bat	ch ID: 55	251	F	RunNo: 7	1993					
Prep Date: 9/17/	2020 Analysis	Date: 9/	20/2020	S	BeqNo: 2	520201	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.023	0.9174	0	95.5	76.3	120				
Toluene	0.91	0.046	0.9174	0.01327	98.1	78.5	120				
Ethylbenzene	0.93	0.046	0.9174	0	101	78.1	124				
Xylenes, Total	2.8	0.092	2.752	0	102	79.3	125				
Surr: 4-Bromofluorob	enzene 0.93		0.9174		101	80	120				
Sample ID: 20099	80-021amsd Samp	Type: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles			
Client ID: B-6 0-	1' Bat	ch ID: 55	251	F	RunNo: 7 '	1993					
Prep Date: 9/17/	2020 Analysis	Date: 9/	20/2020	5	SeqNo: 2	520202	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.86	0.024	0.9407	0	91.6	76.3	120	1.68	20		
Toluene	0.92	0.047	0.9407	0.01327	96.5	78.5	120	0.837	20		
Ethylbenzene	0.95	0.047	0.9407	0	101	78.1	124	1.92	20		
Xylenes, Total	2.9	0.094	2.822	0	101	79.3	125	1.12	20		
Surr: 4-Bromofluorob	enzene 0.95		0.9407		101	80	120	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 range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2009980

25-Sep-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2009980	WO#:
25-Sep-20	

Client: Talon A												
Project: Devon E	Energy Ara	bian 30-	19 Fed Cor	n 2H								
Sample ID: mb-55245	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List			
Client ID: PBS	Bato	h ID: 55	245	F	RunNo: 7 ′	1974						
Prep Date: 9/17/2020	Analysis I	Date: 9 /	18/2020	5	SeqNo: 2	519469	Units: mg/k	٢g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025					0					
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.9	70	130					
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130					
Surr: Dibromofluoromethane	0.45		0.5000		90.1	70	130					
Surr: Toluene-d8	0.48		0.5000		95.8	70	130					
Sample ID: Ics-55245	Samp	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List			
Client ID: BatchQC	Batch ID: 55245 RunNo: 71974											
Prep Date: 9/17/2020	Analysis I	Analysis Date: 9/18/2020 SeqNo: 2519470 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.96	0.025	1.000	0	95.8	80	120					
Toluene	1.1	0.050	1.000	0	110	80	120					
Ethylbenzene	1.1	0.050	1.000	0	109	80	120					
Xylenes, Total	3.2	0.10	3.000	0	107	80	120					
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.0	70	130					
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.3	70	130					
Surr: Dibromofluoromethane	0.45		0.5000		90.6	70	130					
Surr: Toluene-d8	0.51		0.5000		103	70	130					
Sample ID: 2009980-001ams	Samp	Туре: М	64	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List			
Client ID: B-1 0-1'	Bato	h ID: 55	245	F	RunNo: 7	1974						
Prep Date: 9/17/2020	Analysis I	Date: 9 /	18/2020	5	SeqNo: 2	519474	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.98	0.024	0.9443	0	104	71.1	115					
Toluene	1.1	0.047	0.9443	0	113	79.6	132					
Ethylbenzene	1.0	0.047	0.9443	0	111	83.8	134					
Xylenes, Total	3.0	0.094	2.833	0	107	82.4	132					
Surr: 1,2-Dichloroethane-d4	0.44		0.4721		93.1	70	130					
Surr: 4-Bromofluorobenzene	0.46		0.4721		96.4	70	130					
Surr: Dibromofluoromethane	0.44		0.4721		94.1	70	130					
Suit. Dibiomonuorometrane												

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Qualifiers: * Value

D

Н

ND

PQL

S

wow.	
	2:

Page 82 of 116

Talon Artesia

Client:

Project: Devon Energy Arabian 30-19 Fed Com 2H

Sample ID: 2009980-001am	sd SampT	SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: B-1 0-1'	Batc	Batch ID: 55245 RunNo: 71974										
Prep Date: 9/17/2020	Analysis [Date: 9 /	18/2020	Units: mg/k	٢g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.024	0.9690	0	106	71.1	115	4.19	20			
Toluene	1.1	0.048	0.9690	0	110	79.6	132	0.154	20			
Ethylbenzene	1.0	0.048	0.9690	0	108	83.8	134	0.0585	20			
Xylenes, Total	3.1	0.097	2.907	0	107	82.4	132	1.78	20			
Surr: 1,2-Dichloroethane-d4	0.45		0.4845		93.0	70	130	0	0			
Surr: 4-Bromofluorobenzene	0.48		0.4845		98.9	70	130	0	0			
Surr: Dibromofluoromethane	0.46		0.4845		95.8	70	130	0	0			
Surr: Toluene-d8	0.47		0.4845		97.3	70	130	0	0			

B Analyte detected in the associated Method Blank

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 43 of 44

.

WO#: 2009980

25-Sep-20

Talon Artesia

Client:

OC SUMMARY REPORT H

	WO#:	2009980
Hall Environmental Analysis Laboratory, Inc.		25-Sep-20

Project: Devon l	Energy Arab	oian 30-	19 Fed Cor	n 2H						
Sample ID: mb-55245	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	n ID: 55	245	F	RunNo: 7 [,]	1974				
Prep Date: 9/17/2020	Analysis Date: 9/18/2020 SeqNo: 2519500 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	480		500.0		96.1	70	130			
Sample ID: Ics-55245	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 55	245	F	RunNo: 7 [,]	1974				
Prep Date: 9/17/2020	Analysis D	ate: 9 /	18/2020	5	SeqNo: 2	519501	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.2	70	130			
Surr: BFB	490		500.0		97.9	70	130			

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 44 of 44

ANAL	Ronment/ Lysis Dratory	AL	TE	L: 505-345-	ntal Analysis La 4901 Ha Albuquerque, N 1975 FAX: 505- ts.hallenvironme	wkins NE M 87109 845-4107	Sar	nple Log-In Check List
Client Name:	Talon Artes	ia	Work	Order Num	ber: 2009980	2 I		RcptNo: 1
Received By:	Cheyenne	Cason	9/17/20	20 7:30:00	AM			
Completed By:	Juan Roja	s	9/17/20	20 8:49:13	AM	4	ansy	
Reviewed By:	SPA	7.17.2	0					
Chain of Cu	<u>stody</u>							
1. Is Chain of (Custody compl	ete?			Yes 🔽		No 🗌	Not Present
2. How was the	e sample delive	ered?			Courier			
Log In								
3. Was an atte	mpt made to c	ool the samp	les?		Yes 🗹	1	No 🗌	
4. Were all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes 🔽	I	No 🗆	
5. Sample(s) in	proper contai	ner(s)?			Yes 🔽	j	No 🗌	
6. Sufficient sar	mple volume fo	or indicated te	est(s)?		Yes 🔽	N	lo 🗌	
7. Are samples				ed?	Yes 🔽	N	lo 🗆	
8. Was preserv	ative added to	bottles?			Yes 🗌	N	lo 🔽	NA 🗌
9. Received at I	east 1 vial with	headspace	<1/4" for AQ \	/OA?	Yes	N	lo 🗌	NA 🗹
0. Were any sa	mple containe	rs received b	roken?		Yes	٦	No 🔽	# of preserved
1. Does paperw (Note discrep	ork match bott bancies on cha				Yes 🗹	N	lo 🗌	bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices		11 S			Yes 🔽	N	lo 🗆	Adjusted?
3. Is it clear what					Yes 🔽		lo 🗌	- all7/2
4. Were all hold (If no. notify o	ing times able customer for au				Yes 🗹	N	lo 🗌	Checked by: (Jrc 9/17/2
pecial Hand								
5. Was client n	11 1 1 1 1 1		with this order?	>	Yes 🗌	1	lo 🗌	NA 🔽
Persor	Notified:			Date	1			
By Wh				Via:	eMail	Phone	Fax	In Person
Regard								
	Instructions:							
6. Additional re								
7. Cooler Info	after the second s	Candition	Castletar	Destroy 1	015	C ¹	10	
Cooler No	D Temp ℃ 1.7	Condition Good	Seal Intact	Seal No	Seal Date	Signe	d By	
2	0.2	Good					_	
L	1	12121		l				1

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-245 A107	Analysis Request	(tnesdA\tnese	1 , _E ON , (Ad (AOV-im	8220 (Sei 8260 (∧C CI∕)E, Br										1.5 + 0.1 = 1.7	to Devon Energy at	
4901 Hawkins NE - Tel. 505-345-3975		тмв's (8021) 1082 PCB's 7 DRO / MRO) 7 DRO / MRO)	5D(GRO sticides/8 \$310 or 8310 or	EDB (Me 8081 Pe										320 WO: 2084420	Bill directly	this possibility. Any sub-contracted dat
Turn-Around Time: 4-day Standard Crush Project Name: Devon Energy Arabian 30-19 Fed Com 2H Project #:	700794.333.01 Proint Manuel	R. Pons Sampler: Ronnie Rodriguez	# of Coolers: 2 Cooler Temp(Including CF): See Plenner	ContainerPreservativeHEAL No.Type and #Type2 00980	4 02 jar ice -001	200-	100-	200-	900-1-	TUCK	-009		Received by// Via: Date Time	9/10/20	Received by: Via: Date Time	in recessary, 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 network of the network of the serve network of the net
Chain-of-Custody Record	email or Fax#:	QA/QC Package: Standard Standard Accreditation: NELAC	EDD (Type)	Matrix	7-15-2009:00 501 B-1 0-1	B-1 2-	p-1 3-4	09:40 B-2 0-1			0,	_	Date: Time: Relinquished by:	Date: Time: Relibruished hur	2	in recessary, samples submitted to Hall Environmental may be sub

	www.riaiienVironmental.com Hawkins NE - Albuquerque, NM 87109	333.0/ Tel. 505-345-3975 Fax 505-345-4107 Analysis Regimest		Apaen Pot, So SiMS PCB's	resent/ resent/ resz705 v4.1) v.1 br resz705 v.1 br resz705 v.1 br resz705 v.1 br resz705 v.1 br resz705 v.1 br resz705 v.1 br resz705 v.1 br resz705 v.1 v.1 v.1 v.1 v.1 v.1 v.1 v.1 v.1 v.1	00V 93' 94 20 94 20 94 94 94 20 94 94 94 94 94 94 94 94 94 94 94 94 94	AC Prack MTT AC Prack ACC ACC ACC ACC ACC ACC ACC ACC ACC AC	Preservative HEAL No. Type Drogger PC BT Preservative Drogger PC Preservative Drogger PC Preservative PC Prese								020	-012	-013	120-	ss:	ime	If necessary, samples submitted to Hall Environmental marker and CON 9/1/120 0730 Bill directly to Devon Energy
Turn-Around Time: $\eta - d_{\alpha\gamma}$ Standard \Box Rush Project Name: $Devon E$	Arabian Project #:	700794.3	Project Manager:	R. Pons	oler: Rov	# of Coolers:	Cooler Temp(including CF):	Container Prese Type and # Type	4 02 iar	2					-				Renaived M.	10	Received by:	Cm Cou
Client: Chain=of=Custody Record	on file		email or rax#: F	Standard Level 4 (Full Validation)	creditation:	EDD (Type) H		Matrix Sample Name	9-15-2011:00 Soil 8-4 0-1'	11:10 B-4 1-2	11:20 B-4 2-3	11:30 8-4 3-4	11:40 8-5 0-1	11:50 0-5 1-2	12:00 8-5 2-3	1 1	0-6	8-6 2-	Date: Time: Relinquished by:	tolize yn	Date: Time: Relinquished by: R	Pur 20 190 North Submitted to Hall Environmental may be submitted to Hall Environmental may be submitted

Received by OCD: 2/25/2021	1:04:13 PM		Page 87 of 110
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX MTBE / TMB's (8021) RTEX MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCRA 8041 PAHs by 8310 or 8270SIMS PCRA 8 Metals CI)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ Sco (VOA) 8260 (VOA) 8250 (YOA) 7041 S260 (VOA) 7041		208442010.12000.1200 irectly to Devon
Turn-Around Time: 4- day Estandard - Rush Project Name: Devon Energy Arabian 30-19 Fed Com 2H Project #: 700794.333.01	Project Manager: R. Pons Sampler: Ronn : e Rodriguez On loe: B Yes D No # of Coolers: 2 Cooler Temp(Including CF): Sou Runting Container Preservative HEAL No. Type and # Type 7609950		Received by: Via: Mul 26 1330 Received by: Via: Date Time D. Course 9/17/20 71:30 Intracted to other accredited laboratories. This serves as notice of this
Client: Taloa Le Eustody Record Client: Taloa Le E Mailing Address:	email or Fax#:	9-15-2013:0050 $50:1$ $8-7$ $0-1$ $13:10$ $8-7$ $1-2$ $13:20$ $8-7$ $2-3$ $13:20$ $8-7$ $3-4$ $13:20$ $8-7$ $3-4$ $13:20$ $8-7$ $3-4$ $13:20$ $8-8$ $1-2$ $13:50$ $8-8$ $2-3$ $14':0$ $8-8$ $2-3$ $14':20$ $8-8$ $2-3$ $14':20$ $8-8$ $2-3$ $14':20$ $8-9$ $2-3$ $14':20$ $8-9$ $2-3$ $14':20$ $8-9$ $2-3$ $14':20$ $8-9$ $2-3$ $14':50$ $8-9$ $2-3$ $14':50$ $8-9$ $2-3$ $14':50$ $8-9$ $2-3$ $14':50$ $8-9$ $3-4$ $14':50$ $8-9$ $3-4$ $14':50$ $8-9$ $3-4$ $14':50$ $8-9$ $3-4$ $14':50$ $8-9$ $3-4$ $14':50$ $8-9$	Plate: 1330 P Date: Time: Relinquished by: Plate: P P Plate: P P Plate: If necessary, samples submitted to Hall Environmental may be subcompleted and the subcompl

Released to Imaging: 9/20/2022 8:11:25 AM



December 30, 2020

Brandon Sinclair Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2011A46

RE: Arabian 30 19 2H

Dear Brandon Sinclair:

Hall Environmental Analysis Laboratory received 14 sample(s) on 11/20/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 01, 2020.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analy	ysis Laboratory, In	ıc.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample II): BC	G-1 0-1'	
Project: Arabian 30 19 2H		Coll	ection Date	e: 11	/18/2020 9:00:00 AN	1
Lab ID: 2011A46-001	Matrix: SOIL	Re	ceived Date	e: 11	1	
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	rst: VP
Chloride	86	59	mg/Kg	20	11/25/2020 1:55:15 F	PM 56657

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 15

Hall Environmental Analysis Laboratory, Inc.					Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample II	D: BC	G-2 0-1'	
Project: Arabian 30 19 2H		Coll	ection Dat	e: 11/	/18/2020 9:03:00 AN	Л
Lab ID: 2011A46-002	Matrix: SOIL	Received Date: 11/20/2020 8:00				Л
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	vst: VP
Chloride	210	60	mg/Kg	20	11/25/2020 2:32:30 F	PM 56657

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 15

Hall Environmental Analy	ysis Laboratory, II	1c.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample II	D: BC	3-3 0-1'	
Project: Arabian 30 19 2H		Coll	ection Dat	e: 11/	/18/2020 9:06:00 AN	Л
Lab ID: 2011A46-003	Matrix: SOIL	Ree	ceived Dat	Date: 11/20/2020 8:00:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	vst: VP
Chloride	170	60	mg/Kg	20	11/25/2020 3:34:32 F	PM 56657

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 15

Hall Environmental Analy	ysis Laboratory, II	nc.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	Sample II	D: BC	j-4 0-1'	
Project: Arabian 30 19 2H	Collection Date: 11/18/2020 9:09:00 AM					
Lab ID: 2011A46-004	Matrix: SOIL	Rec	eived Dat	Date: 11/20/2020 8:00:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	rst: VP
Chloride	190	59	mg/Kg	20	11/25/2020 3:46:57 F	PM 56657

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 15

Hall Environmental Analy	ysis Laboratory, Ir	ıc.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	Sample II	D: B-	5 6'	
Project: Arabian 30 19 2H		Colle	ection Dat	e: 11	/18/2020 9:15:00 AN	1
Lab ID: 2011A46-005	Matrix: SOIL	Rec	eived Dat	e: 11	/20/2020 8:00:00 AN	1
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	rst: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 3:59:21 F	PM 56657

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 15

Hall Environmental Analy	ysis Laboratory, In	IC.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample II): B-:	5 8'	
Project: Arabian 30 19 2H	Collection Date: 11/18/2020 9:20:00 AM					
Lab ID: 2011A46-006	Matrix: SOIL	Re	ceived Dat	e: 11/	/20/2020 8:00:00 AN	Л
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	vst: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 4:30:27 F	PM 56657

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- NDNot Detected at the ReportinPQLPractical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 15

Hall Environmental Analy	ysis Laboratory, II	nc.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample II): B-:	5 10'	
Project: Arabian 30 19 2H		Coll	lection Date	e: 11/	/18/2020 9:25:00 AN	1
Lab ID: 2011A46-007	Matrix: SOIL	Re	ceived Date	e: 11/	/20/2020 8:00:00 AN	1
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 4:42:54 F	M 56657

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 15

Hall Environmental Analy	ysis Laboratory, Inc	с.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	
CLIENT: Talon Artesia		Client	t Sample II	D: B-4	- 6'	
Project: Arabian 30 19 2H	Collection Date: 11/18/2020 12:30:00 PM					
Lab ID: 2011A46-008	Matrix: SOIL	Re	ceived Dat	t e: 11/2	20/2020 8:00:00 Al	Ν
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 4:55:18	PM 56657

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 15

Hall Environmental Analy	ysis Laboratory, In	c.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample II): B-	4 8'R	
Project: Arabian 30 19 2H		Coll	ection Date	e: 11/	/18/2020 12:35:00 P	М
Lab ID: 2011A46-009	Matrix: SOIL	Re	ceived Date	e: 11/	/20/2020 8:00:00 AN	Л
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	vst: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 5:32:32 F	PM 56664

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 15

Hall Environmental Analysis Laboratory, Inc.				Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client	t Sample I	D: B-10 0-1'	
Project: Arabian 30 19 2H		Coll	ection Dat	te: 11/18/2020 1:00:00 PM	1
Lab ID: 2011A46-010	Matrix: SOIL	Re	ceived Dat	te: 11/20/2020 8:00:00 AN	Л
Analyses	Result	RL Qu	ıal Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	vst: VP
Chloride	6400	300	mg/Kg	100 11/30/2020 9:46:04 A	M 56664

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 15

Hall Environmental Analy	vsis Laboratory. Ir				Analytical Report Lab Order 2011A46	/2020
CLIENT: Talon Artesia	, 515 Lubol atol y, 11	Client S	ample I	D: B-	Date Reported: 12/30	/2020
Project: Arabian 30 19 2H	Collection Date: 11/18/2020 1:05:00 PM					
Lab ID: 2011A46-011	Matrix: SOIL	Recei	ved Dat	t e: 11/	/20/2020 8:00:00 AN	1
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	120	60	mg/Kg	20	11/25/2020 6:22:09 F	M 56664

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 11 of 15

Hall Environmental Analy	ysis Laboratory, Ir	ıc.			Analytical Report Lab Order 2011A46 Date Reported: 12/30/	/2020
CLIENT: Talon Artesia		Client Sa	ample II	D: B-	10 3'	
Project: Arabian 30 19 2H		Collect	tion Dat	e: 11/	/18/2020 1:10:00 PM	[
Lab ID: 2011A46-012	Matrix: SOIL	Recei	ved Dat	e: 11/	/20/2020 8:00:00 AN	1
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 6:34:34 P	M 56664

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 15

Hall Environmental Analy	ysis Laboratory, Ir	10.			Analytical Report Lab Order 2011A46 Date Reported: 12/30/	/2020
CLIENT: Talon Artesia		Client S	ample II	D: B-	10 4'	
Project: Arabian 30 19 2H		Collec	tion Dat	e: 11	/18/2020 1:15:00 PM	[
Lab ID: 2011A46-013	Matrix: SOIL	Rece	ived Dat	e: 11	/20/2020 8:00:00 AN	1
Analyses	Result	RL Qual	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	ND	60	mg/Kg	20	11/25/2020 6:46:59 P	M 56664

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 13 of 15

Hall Environmental Analy	ysis Laboratory, In	IC.			Analytical Report Lab Order 2011A46 Date Reported: 12/30	/2020
CLIENT: Talon Artesia		Client S	Sample II	D: B-	10 6'R	
Project: Arabian 30 19 2H		Collec	ction Dat	e: 11	/18/2020 1:20:00 PM	[
Lab ID: 2011A46-014	Matrix: SOIL Received Date: 11/20/2020 8:00:00 AM					
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	ND	61	mg/Kg	20	11/25/2020 6:59:24 P	M 56664

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 15

Talon Artesia

Client:

NI Is Laboratory Inc	WO#:	2011A46	
is Laboratory, Inc.		30-Dec-20	

Project: Arabia:	n 30 19 2H						
Sample ID: MB-56657	SampType: MBLK	TestCode: EPA Method 300.0: Ani	ons				
Client ID: PBS	Batch ID: 56657	RunNo: 73610					
Prep Date: 11/25/2020	Analysis Date: 11/25/2020	SeqNo: 2594645 Units: mg	g/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit Qual				
Chloride	ND 1.5						
Sample ID: LCS-56657 SampType: LCS TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 56657	RunNo: 73610					
Prep Date: 11/25/2020	Analysis Date: 11/25/2020	SeqNo: 2594646 Units: mg	g/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit Qual				
Chloride	14 1.5 15.00	0 93.5 90 110)				
Sample ID: MB-56664	SampType: MBLK	TestCode: EPA Method 300.0: Ani	ons				
Client ID: PBS	Batch ID: 56664	RunNo: 73610					
Prep Date: 11/25/2020	Analysis Date: 11/25/2020	SeqNo: 2594675 Units: mg	g/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit Qual				
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit HighLimi	t %RPD RPDLimit Qual				
,		SPK Ref Val %REC LowLimit HighLimi TestCode: EPA Method 300.0: Ani					
Chloride	ND 1.5						
Chloride Sample ID: LCS-56664	ND 1.5 SampType: LCS	TestCode: EPA Method 300.0: Ani	ons				
Chloride Sample ID: LCS-56664 Client ID: LCSS	ND 1.5 SampType: LCS Batch ID: 56664 Analysis Date: 11/25/2020	TestCode: EPA Method 300.0: Ani RunNo: 73610	ons g/Kg				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 15

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com			NE 109 107	Page 104 Sample Log-In Check List			
Client Name: Talon Artesia	Work Order Num	ber: 201	1A46		RcptNo: 1			
Received By: Sean Livingston 11	/20/2020 8:00:00	AM		S	_L	yst		
Completed By: Isaiah Ortiz 11	/20/2020 9:10:53	3 AM		I	-0	24		
Reviewed By: JR 11/20/20								
Chain of Custody								
1. Is Chain of Custody complete?		Yes		No		Not Present		
2. How was the sample delivered?		Cou	rier					
Log In								
Was an attempt made to cool the samples?		Yes	V	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				
5. Sufficient sample volume for indicated test(s)?		Yes	•	No				
7. Are samples (except VOA and ONG) properly pro	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 bottles checked		
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		for pH: (<2 or >12 unless noted)		
2. Are matrices correctly identified on Chain of Cus	tody?	Yes	V	No		Adjusted?		
3. Is it clear what analyses were requested?		Yes						
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by: SGL 11/20/20		
pecial Handling (if applicable)								
5. Was client notified of all discrepancies with this	order?	Yes		No		NA 🔽		
Person Notified:	Date		_					
By Whom:	Via:	🗌 eM	ail 🗌 Ph	one 🗌	Fax	In Person		
Regarding:								
Client Instructions:								
16. Additional remarks:								
7. <u>Cooler Information</u> Cooler No Temp ^o C Condition Seal I	ntact Seal No	Seal D	ate S	Signed	Ву			

Page 1 of 1

MALL ENVIRONMENTAL ANALVSIS LABORATORY www.halienvironmental.com	Tax 50 Tax 50 (AOV) (Semi-VO, SO, So	Dadkins@talonipe.com Rpons@talonipe.com As Per Brandon, SampleID workste for
MALL ENVIRONME ANALYSIS LABORA www.hallenvironmental.com	RTEX / MTBE / TMB's (8021) R	Please cc the Dadkins@talonlpe.com Rpons@talonlpe.com As Per Brandon, S
Turn-Around Time: 4 - Day B Standard Day Project Name: (Arabin 2H) Arabian 30-19 2H Project #-	TUDD944 333.01 Project Manager. Project Manager. A. Sin clair Sampler. n. Collifer Sampler. n. Sam	Received by: Via: Date Time
raun-on-Gustody Record Falon LPE 38 W Texas St ddress: Artesia, NM 88210	Il or Fax#: (575) 746-8905 C Package: terndard □ Level 4 (Full Validation) editation: □ Az Compliance ELAC □ Other DD (Type) □ Other PD (Type) □ Other PLAC □ O	Date: Time: Relinquished by: Received by: Via: Date Time Please cc the following via email:- If necessary, samples submitted to Hall Environment Level Received by: Via: Date Time Rpons@talonipe.com

Released to Imaging: 9/20/2022 8:11:25 AM

HALL ENVIROMMENTAL AMALVSIS LABORATORY www.hallenvironmental.com Kins NE Albuquerque, NM 87109 345-3975 Fax 505-345-4107		.			
ENVIRONMENTAL VSIS LABORATOR environmental.com Albuquerque, NM 87109 Fax 505-345-4107					Padkins@talonlpe.com Rpons@talonlpe.com
AMALYSIS LABORA AMALYSIS LABORA www.hallenvironmental.com 4901 Hawkins NE Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107			+		aen
ALL ENVIRONN MALYSIS LABO www.hallenvironmental.com ins NE - Albuquerque, NM 87 65-3975 Fax 505-345-4107	(InesdA\tneser9) mrotilo	CletoT	+		iv gr
EMVEROI SIS LAB Mironmental.co Ibuquerque, NN Fax 505-345-	(AOV-Ima2	0728		- I - I	owir
andre	(AOV)	8560 (foll
Altern	Br. NO3, NO3, POA, SOA	and the second se			the
AMAL	letals	- 200			e co e.con com
Mun With With With With With With With With	SMIS0728 10 01 83 10 01 88 70 81				Rpons@talonlpe.com
Haw 505-	Pesticides/8082 PCB's (Method 504.1)				@talon Dtalon
1el. 1	8015D(GRO / DRO / MRO)			- ie	Ikins ns@
	X/ MTBE/ TMB's (8021)				Dao
Turn-Around Time: 4-Day Estandard D Rush Project Name: Arabian 2h Project #: Project #: Project #:	8. Sin clair Sampler: M. clair Sampler: M. colliter Sampler: M. colliter Sampler: Preservative Contrainer			Received by: Via: Date Time	Time: Retifiquished by: Flease cc the following via email: Each following via email: Date Time Please cc the following via email: If necessary, samples submitted to Hall Environmental may be subcontracted to other acconding laboratories. This condition is the received to other acconding laboratories. This condition is the received by: Date Time
Client Talon LPE 408 W Texas St Mailing Address: Artesia, NM 88210 Phone #: 575 - 746 - 876 8 email or Fax#: (575) 746-8905	Date Time Matrix Samula Nous	50i/ 50i/		late: Time: Relinquished by:	Date: Time: Reinquished by: If necessary, samples submitted to Hall Environmental may be

.

Released to Imaging: 9/20/2022 8:11:25 AM

Certificate of Analysis Summary 683645 Talon LPE-Artesia, Artesia, NM

Environment Testing

Released to Imaging: 9/20/2022 8:11:25 AM

lession hamer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

BRL - Below Reporting Limit

Final 1.000

Page 1 of 9

Received by OCD: 2/25/2021 1:04:13 PM

eurofins Environment Testing Xenco

Analytical Report 683645

for

Talon LPE-Artesia

Project Manager: David Adkins

Devon Energy Arabian 3019 Federal

700794.333.01

01.07.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 2/25/2021 1:04:13 PM

Xenco

01.07.2021

eurofins 🔅

Project Manager: **David Adkins Talon LPE-Artesia** 408 West Texas St. Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): 683645 Devon Energy Arabian 3019 Federal Project Address:

David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683645. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683645 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins Environment Testing Xenco

Sample Id

B-9 A

Sample Cross Reference 683645

Talon LPE-Artesia, Artesia, NM

Devon Energy Arabian 3019 Federal

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	01.06.2021 12:22	0.5 - 1 ft	683645-001

Received by OCD: 2/25/2021 1:04:13 PM

Environment Testing Xenco

CASE NARRATIVE

Client Name: Talon LPE-Artesia Project Name: Devon Energy Arabian 3019 Federal

 Project ID:
 700794.333.01

 Work Order Number(s):
 683645

 Report Date:
 01.07.2021

 Date Received:
 01.06.2021

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Received by OCD: 2/25/2021 1:04:13 PM

Xenco

Talon LPE-Artesia, Artesia, NM

Devon Energy Arabian 3019 Federal

Sample Id: Lab Sample Id	B-9 A l: 683645-001		Matrix: Date Colle	ected	Soil 01.06.2021 12:22		Date Received Sample Depth			:26
Analytical Me	thod: TPH by SW8015 M	Mod					Prep Method:	SW8	3015P	
Tech:	MAB									
Analyst:	MAB		Date Prep) :	01.06.2021 18:06		% Moisture: Basis:	Wat	Waiaht	
Seq Number:	3146947						Dasis.	wei	Weight	
Parameter		Cas Number	Result	RL		Units	Analysis D	ate	Flag	Dil

						-	-	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.07.2021 00:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.07.2021 00:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.07.2021 00:18	U	1
Total TPH	PHC635	<49.80	49.80		mg/kg	01.07.2021 00:18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	01.07.2021 00:18		
o-Terphenyl		84-15-1	98	%	70-135	01.07.2021 00:18		

Xenco

Environment Testing

🔅 eurofins

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ole Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Received by OCD: 2/25/2021 1:04:13 PM

Xenco

Environment Testing

🔅 eurofins

QC Summary 683645

Talon LPE-Artesia

Devon Energy Arabian 3019 Federal

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3146947 7718580-1		od	LCS San	Matrix: nple Id:	Solid 7718580-	1-BKS			rep Meth Date Pr D Sample	ep: 01.0	8015P)6.2021 8580-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarl	oons (GRO)	<50.0	1000	992	99	1140	114	70-135	14	35	mg/kg	01.06.2021 17:54	
Diesel Range Organics	(DRO)	<50.0	1000	927	93	1120	112	70-135	19	35	mg/kg	01.06.2021 17:54	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		97		1	08		112		70	-135	%	01.06.2021 17:54	
o-Terphenyl		106		1	09		104		70	-135	%	01.06.2021 17:54	

-	tical Method:TPH by SW8015 Modumber:3146947Matrix:SolidMB Sample Id:7718580-1-BLK					8015P 6.2021	
Parameter Motor Oil Range Hydrocarbo	ons (MRO)	MB Result <50.0			J nits ng/kg	Analysis Date 01.06.2021 17:34	Flag

Analytical Method:	od		M / 1	G 1		Prep Method: SW8015P								
Seq Number:	3146947				Matrix:	Soil				Date Pr	ep: 01.0	06.2021		
Parent Sample Id:	683632-00	1		MS Sar	nple Id:	683632-00	01 S		MS	D Sample	e Id: 683	632-001 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbo	ons (GRO)	< 50.1	1000	1130	113	1170	117	70-135	3	35	mg/kg	01.06.2021 18:55		
Diesel Range Organics ((DRO)	<50.1	1000	1160	116	1030	103	70-135	12	35	mg/kg	01.06.2021 18:55		
Surrogate				MS %Rec		MS Flag	MSD %Ree			imits	Units	Analysis Date		
1-Chlorooctane				1	14		112		70	-135	%	01.06.2021 18:55		
o-Terphenyl				1	07		115		70	-135	%	01.06.2021 18:55		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Page 8 of 9

	W.G. M. (Signature) Received by: (Signature)	alinquishment of samples constitutes re cost of samples and shall not assu ill be applied to each project and a ch	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA 1 the structure of the structure of			atrix Sau	Yes No N/A	Yes Ng N/A Correction Factor:	Yes No Thermometer ID	Temp Blank: Y	Quote #:	Sampler's Name: David McInnig Rush:	Project I costion 700 749, 335, 01 Routine	Verontwer	13 15) 441 - 6460 Email: 65	Artesia, NM P8210 City,	408 W. Texas Ave	3171	Brandon Sinclair	ORIES
6 4	Date/Time Relinquished by: (Signature)	ompany to Xenco, its affiliates and subcontractors. It assigns standard ferms and conditions or expenses incurred by the client if such losses are due to circumstances beyond the control d to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	A Sb As Ba Be Cd Cr Co Cu Fe Pb Mg			Numb			To a construction of the c				Code		· @thon/pe.com	ate ZIP:	Address:	1	Bill to: if different)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432) 704-5440 EL Paso,TX (915) 565-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440 oenix,AZ (480) 355-0900 Atlanta GA (770) 440-8800 Tenero Li Marco Calendro (1997) 1990 Atlanta GA (770) 440-8800
Revised Date 022619 Rev. 2018 1	e) Received by: (Signature) Date/Time	IG31 / 245.1 / 7470 / 7471 : Hg Ims and conditions beyond the control by negotiated.	K Se Ag SiO2 Na Sr TI Sn U V Zn			Sample Comments	TAT starts the day received by the lab, if	Zn Acetate+ NaOH: Zn	HCL: HL	H2S04: H2	HNO3: HN	None: NO			Deliverables: EDD ADaPT Other	Beneting and a supervised and a supervis	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	WW	Work Order No: 07 2075

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Talon LPE	329944
408 W Texas	Action Number:
Artesia, NM 88210	18998
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
bhall	None	9/20/2022

Action 18998