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

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

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

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

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

## **Release Notification**

			Resp	ponsik	ole Party	7		
Responsible Party: Devon Energy OGR		OGRID: 32	328947					
Contact Name: Tom Bynum Contact T			Contact Te	lephone: 580-748-1613				
Contact emai	l: Tom.Byn	um@dvn.com			Incident # (	(assigned by OCD): NAB1914957336		
Contact mail	ing address:	PO Box 250 Arte	sia, NM 88211	'				
			Location	of R	elease So	ource		
Latitude 32.7	56244	Longitude	e <u>-103.909982</u>	(	(NAD 83 in dec	rimal degrees to 5 decimal places)		
Site Name: Sa	and 7 Federa	al 4			Site Type: 0	ype: Oil Production		
Date Release	Discovered:	01/15/2018			API# (if app	licable) 30-015-26417		
Unit Letter   Section   Township   Range   County			ty					
N	07	18S	31E	Eddy				
Surface Owner: State Federal Tribal Private (Name:)  Nature and Volume of Release								
Material(s) Released (Select all that apply and attach calculations or specific Crude Oil Volume Released (bbls)		ons or specific	Volume Recovered (bbls)					
Produced	Water	Volume Release	d (bbls) 6.5 bbl			Volume Recovered (bbls) 5		
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		in the	☐ Yes ⊠ No					
Condensate Volume Released (bbls)			Volume Recovered (bbls)					
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)					
Other (describe) Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)					
Cause of Release: The stuffing box developed a leak. The well was immediately shit in and a vacuum truck was dispatched to recover any standing fluid. An area of approximately 30'x30' on the well pad was impacted by the release. No fluid from the release exited the well pad area.								

Page 2 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

Was this a major	If YES, for what reason(s) does the resp	onsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To v	whom? When and by what means (phone, email, etc)?
	Initial F	Response
The responsible	party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	ease has been stopped. as been secured to protect human health an	d the environment.
	•	dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed a	nd managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explair	why:
		remediation immediately after discovery of a release. If remediation
0 1		l efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		e best of my knowledge and understand that pursuant to OCD rules and
-	-	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a th	reat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Ta C-141 report does not reneve the operator of	responsionity for compilate with any other rederal, state, or focal laws
Printed Name:Rebe	ecca Pons Title:Project Manager_	
Signature:		Date: 12/3/2020
email: Rpons@tal	lonlpe.com	Telephone: <u>575-441-0980</u>
Typons@tu		20.0phono. <u>272 111 0200</u>
OCD O. I		
OCD Only		
Received by:Jocely	yn Harimon	Date:12/05/2022_

	Page 3 of 19.	2
Incident ID	NAB1803054540	
District RP	2RP-4593	
Facility ID	30-015-26417	
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?	158(ft bgs)		
Did this release impact groundwater or surface water?			
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?			
Are the lateral extents of the release overlying a subsurface mine?			
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 <b>not</b> 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.			
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>			

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.

Received by OCD: 12/5/2022 12:47:33 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 4 of 192
Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Rebecca Pons Title: Project Manager Date: 12/3/2020 Signature: Rpons@talonlpe.com 575-441-0980 Telephone: \_\_\_\_\_ email: \_\_\_ **OCD Only** Date: \_ 12/05/2022 Received by: \_\_\_\_\_Jocelyn Harimon

Remediation Plan Checklist: Each of the following items must be included in the plan.

Page 5 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

## **Remediation Plan**

<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>				
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name: Rebecca Pons Title: Project Manager  Signature: Date: 10/26?2020  Email: Rpons@talonlpe.com Telephone: 575-441-0980				
Received by: Jocelyn Harimon Date: 12/05/2022  Approved Approved with Attached Conditions of Approval Denied Deferral Approved				
Signature: Date:				

Page 6 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
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 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement 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
Printed Name: Tom Bynum	Title: EHS Consultant
Signature: Tom Bynum	Date: 12/3/2020
Signature: Tom Bynum  email: tom.bynum@dvn.com	Telephone: <u>575-748-2663</u>
OCD Only	
Received by:	Date:12/05/2022
	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:	Date:
Printed Name:	Title:

**APPROVED** 

By Ashley Maxwell at 2:34 pm, Feb 02, 2023



## **Remediation and Closure Report**

Sand 7 Federal 4 Eddy County, New Mexico 30-015-26417 Incident #2RP-4593

## **Prepared For:**

Devon Energy Production Company 6488 Seven Rivers Hwy. Artesia, NM 88210

## **Prepared By:**

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

**December 14, 2020** 

Mike Bratcher

NMOCD

811 S. 1<sup>st</sup> Street

Artesia. NM 88210

Jim Amos BLM 620 E. Greene St. Carlsbad, NM 88220

Subject: Remediation and Closure Report

Sand 7 Federal 4 Eddy County, NM API 30-015-26417 Incident #2RP-4593

Dear Mr. Bratcher and Mr. Amos,

Devon Energy Production Company has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The incident description, soil sampling results, remedial actions, and closure request is presented herein.

#### Site Information

The Sand 7 Federal 4 is located approximately thirty-seven (37) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter H, Section 33, Township 26 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.756244 North and -103.909982 West. A Site Map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino-Pajarito association with 0 to 3 percent slopes. The reference soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and piedmont alluvial deposits. Drainage courses in this area are well drained.

#### **Ground Water and Site Characterization**

Research of the New Mexico Office of the State Engineer revealed no records for depth to groundwater in the vicinity of this wellsite see Appendix II for the referenced groundwater data. This site is not situated in a Karst area (Appendix I).

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 in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

<b>Approximate Depth to</b>	Groundwater	<50	Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing any other significant watercourse	g watercou	rse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole of	r a playa la	ake
□Yes ⊠No	Within 300 feet from an occupied permane school, hospital, institution or church	ent residen	ce,
□Yes ⊠No	Within 500 feet of a spring or a private, do well used by less than five households for watering purposes		
□Yes ⊠No	Within 1000 feet of any freshwater well or	spring	
∐Yes ⊠No	Within incorporated municipal boundaries municipal freshwater well field covered un ordinance adopted pursuant to Section 3-	ider a muni	cipal
□Yes ⊠No	Within 300 feet of a wetland		
□Yes ⊠No	Within the area overlying a subsurface mi	ne	
□Yes ⊠No	Within an unstable area		
□Yes ⊠No	Within a 100-year floodplain		

Because the depth to groundwater was undetermined, the site characterization data the clean up criteria for this site is as follows.

Table I									
	Closure Criteria for Soils Impacted by a Release								
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit						
< 50 feet	Total Chlorides	EPA 300.0 or SM4500 CI B	600 mg/kg						
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 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 January 15, 2018, a stuffing box was observed to have been leaking at the Sand 7 Federal 4 location. The well was immediately shut in and a vacuum truck was dispatched to recover any standing fluid. Approximately 7.5 barrels (bbls) of mixed fluids were released on the pad area. Approximately 5 bbls of produced water and 1 bbl of oil were recovered. The impacted area measured 30'x30' on the well pad. The release occurred on the pad area and no fluid traversed to the pasture area. The site map is presented in Appendix I.

#### **Site Assessment**

On September 19, 2020, Talon mobilized personnel to the site and conducted the initial site assessment. The spill area was gps mapped using a Juno Trimble 3B handheld device. Soil samples were grabbed from the footprint of the spill area. All soil samples were properly contained, preserved and transported to Hall Laboratory, Inc., via chain of custody for analyses of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M), and BTEX (EPA Method 8021B). Sample locations are shown on the attached site plan and the results of our sampling event are presented in the following data table.

9-19-2020, Soil Sample Laboratory Results

Sample	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total	Cl
NMOCD To	able 1 Closure	Criteria	50	10	DRO -	- GRO		100	600
S1	09/18/2020	0-1'	ND	ND	ND	ND	ND	-	ND
S1	09/18/2020	2′	ND	ND	ND	ND	ND	-	ND
S1	09/18/2020	3'	ND	ND	ND	ND	ND	-	ND
S1	09/18/2020	4'	ND	ND	ND	ND	ND	-	ND
S2	09/18/2020	0-1'	ND	ND	ND	340	370	710	220
S2	09/18/2020	2′	ND	ND	ND	27	ND	27	240
S2	09/18/2020	3`	ND	ND	ND	ND	ND	-	240
S2	09/18/2020	4'	ND	ND	ND	ND	ND	-	280
S3	09/18/2020	0-1'	ND	ND	ND	5900	4600	10500	170
S3	09/18/2020	2′	ND	ND	ND	ND	ND	-	ND
S3	09/18/2020	3'	ND	ND	ND	ND	ND	-	ND
S3	09/18/2020	4'	ND	ND	ND	11	ND	-	66
S4	09/18/2020	0-1'	ND	ND	ND	290	400	690	ND
S4	09/18/2020	2′	ND	ND	ND	ND	ND	-	ND
S4	09/18/2020	3'	ND	ND	ND	ND	ND	-	ND
S4	09/18/2020	4'	ND	ND	ND	ND	ND	-	ND
BG1	09/18/2020	0-1'	ND	ND	ND	130	380	510	200
BG2	09/18/2020	0-1'	ND	ND	ND	12	53	65	ND
BG3	09/18/2020	ND	ND	ND	ND	7800	8200	16000	270
BG4	09/18/2020	ND	ND	ND	ND	130	410	540	550
BG5	09/18/2020	ND	ND	ND	ND	10	59	69	ND

ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

Based on the laboratory data from the initial site assessment: Talon personnel and equipment mobilized to the Sand 7 Federal #004 location on November 10, 2020, in order to commence remediation activities. The spill area was initially excavated to depth of 1'-1.5' bgs. The sidewalls were advanced in the background samples areas of BG1, BG3, and BG4 respectively. All confirmation soil samples were properly contained, preserved, and transported to Hall Laboratories for analyses of Total Chlorides, TPH, and BTEX constituencies. The results are tabled below for ease of reference.

11-18-2020, Soil Sample Laboratory Results

Sample	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total	Cl
NMOCD T	able 1 Closure	Criteria	50	10	DRO +	+ GRO		100	600
S1A	11/10/2020	1'	ND	ND	ND	390	340	730	140
S2A	09/18/2020	1'	ND	ND	ND	390	710	1100	95
S3A	09/18/2020	1.5'	ND	ND	ND	13	ND	13	ND
S4A	09/18/2020	1.5'	ND	ND	ND	150	230	380	220
S-5	09/18/2020	1.5'	ND	ND	ND	850	950	1800	150
S. SW	09/18/2020	1.5'	ND	ND	ND	ND	ND	-	ND
W.SW	09/18/2020	1.5'	ND	ND	ND	650	470	1120	ND
N. SW	09/18/2020	1-1.5'	ND	ND	ND	ND	ND	-	280
E.SW-1	09/18/2020	1'	ND	ND	ND	ND	ND	-	ND
E.SW-2	09/18/2020	1.5'	ND	ND	ND	42	64	106	200
BG-1A	09/18/2020	0-1'	ND	ND	ND	ND	ND	-	ND
BG-3A	09/18/2020	0-1'	ND	ND	ND	ND	ND	-	ND
BG-4A	09/18/2020	0-1'	ND	ND	ND	ND	ND	-	ND

ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

On November 16, 2020, Talon personnel and equipment mobilized to the location in order to excavate the spill area to the extent that all petroleum hydrocarbons were removed, until no visual staining, or olfactory perception remained. The spill footprint was excavated to a depth of 4' bgs., and the west sidewall was advanced approximately 1' to the extent that field results for chloride content was less than 600 mg/kg., and no visual staining could be observed. All samples were retrieved on a composite basis, properly contained, preserved, and transported to Hall Laboratory via chain of custody for analyses. The results of our confirmation sampling event are tabulated below. A confirmation sample location map is provided in Appendix I.

#### 11-24-20, Soil Laboratory Results

Sample	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total	Cl
NMOCD Table 1 Closure Criteria			50	10	DRO -	+ GRO		100	600
S1A	11/17/2020	4'	ND	ND	ND	ND	ND	-	ND
S2A	11/17/2020	4'	ND	ND	ND	ND	ND	-	220
S4A	11/17/2020	4'	ND	ND	ND	ND	ND	-	250
S5A	11/17/2020	4'	ND	ND	ND	ND	ND	-	170
WSW	11/17/2020	4'	ND	ND	ND	ND	ND	-	120

ND-Analyte Not Detected

See Appendix V for the complete report of laboratory results.

#### **Remedial Actions**

- The impacted area was excavated to a depth of 4-feet BGS.
- The excavated soil was disposed of at a NMOCD approved solid waste disposal facility.
- Composite confirmation soil samples were collected and analyte levels were verified to be below NMOCD and BLM remediation guidelines.
- Fresh caliche, similar in grade was used to backfill the location. The excavated area was machine compacted and restored to surrounding grade.

#### Closure

Based on this site characterization, remedial actions completed, and analytical results, we request that no further actions be required, and that closure with regard to the attached 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

Rebecca Pons Project Manager

David J. Adkins Regional Manager

#### Attachments:

Appendix I Site Maps, Location Map, Karst Map, Topographic Map

Appendix II Groundwater Data, Soil Survey

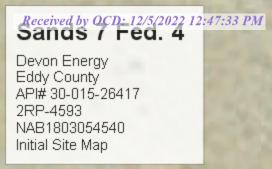
Appendix IV Initial and Final C-141's Appendix IV Photo Documentation Appendix V Laboratory Analytical Data

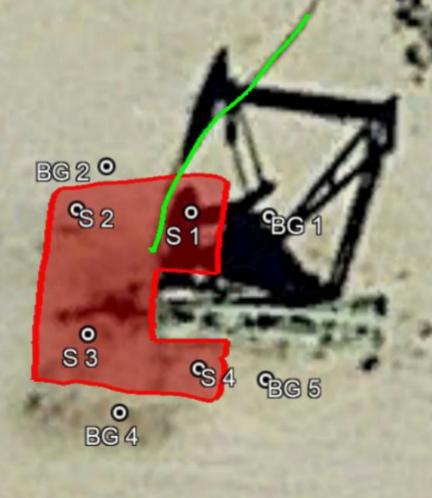
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# **APPENDIX I**

## SITE MAPS





Leger de 15 of 192

Flow Line
Sample Point

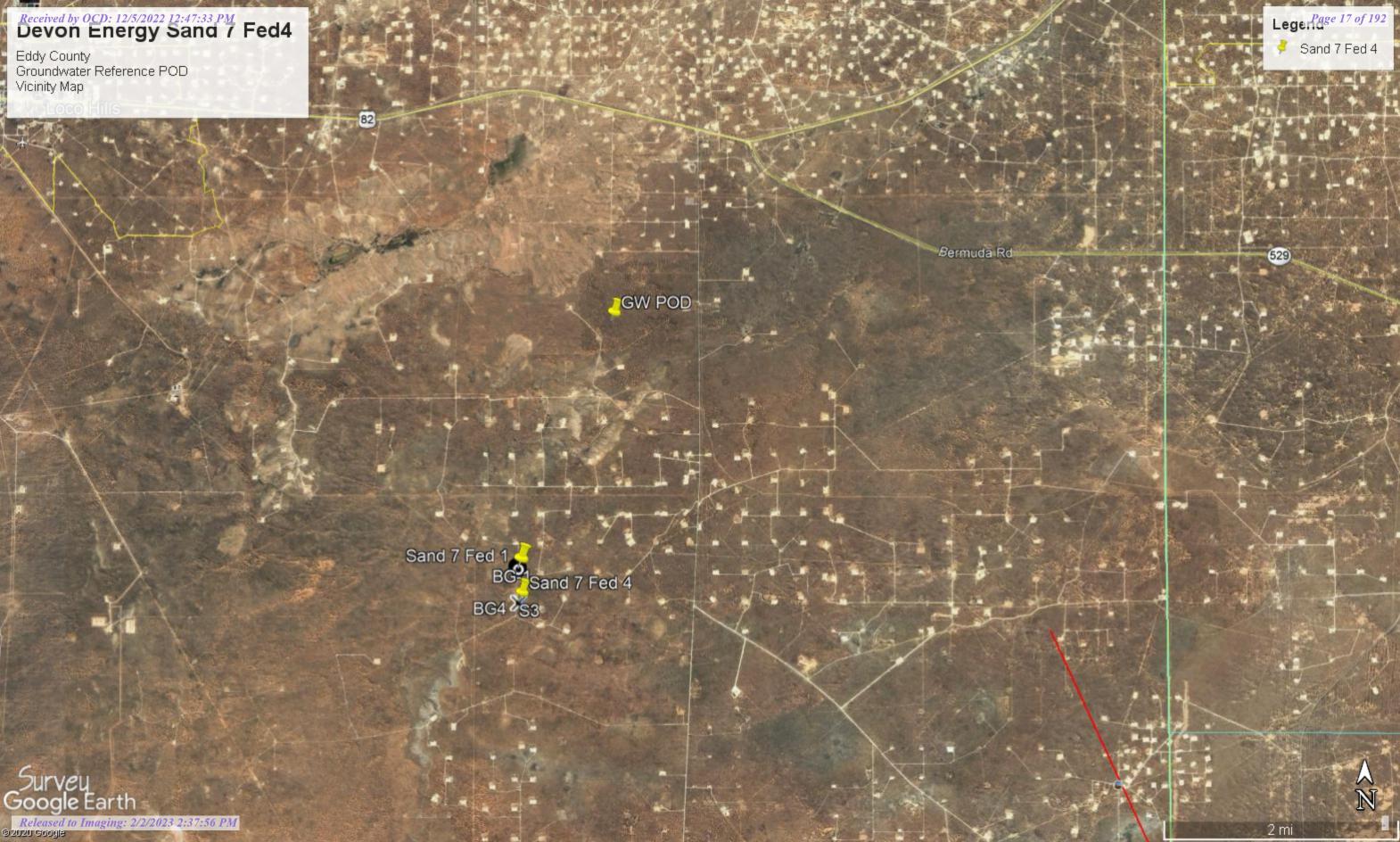
Spill Area

B@ 3 0

Legende 16 of 192 Received by OCD: 12/5/2022 12:47:33 PM Sand / Fed #4 Impact Area Devon Energy Production Corporation Eddy County, NM API# 30-015-26417 2RP-4593 Confirmation Sample Map Sample Point O N.SW S-2A O **o** S-1A 95.SW-1 w.sw o **e**S-5 S-3A • S-4A • 9 SW-2 o S.SW Google Earth

Released to Imaging: 2/2/2023

92020 Google









## APPENDIX II

## GROUNDWATER DATA



## 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 (R=POD has been

replaced, O=orphaned,

C=the file is

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

water right file.) closed)

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

=	,				_					-				
		POD												
		Sub-		Q	QQ	)								Water
POD Number	Code	basin	County	64	16 4	l Se	ec '	Tws	Rng	X	Y	DistanceDep	othWellDep	othWater Column
RA 11590 POD1		RA	ED	2	1 3	3	2	17S	31E	603315	3628545	3927	158	
RA 11590 POD4		RA	ED	4	1 1	. 3	2	17S	31E	603308	3629253	4605	55	
RA 11590 POD3		RA	ED	3	1 2	2 3	2	17S	31E	603932	3629260	4811	60	

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 3

Basin/County Search:
County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 602107.72 Northing (Y): 3624807.84 Radius: 5000

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.

9/17/20 11:52 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

RA 11590 POD1

1 3 32 17S 31E

603315 3628545

**Driller License: 225** 

**Driller Company:** 

RODGERS & CO., INC.

**Driller Name:** 

Drill Start Date: 01/20/2010

**Drill Finish Date:** 01/26/2010

Plug Date:

Log File Date: 04/23/2010

**PCW Rcv Date:** 

Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well: 158 feet **Depth Water:** 

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

11/30/20 1:16 PM

POINT OF DIVERSION SUMMARY

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

#### BP—Berino-Pajarito complex, 0 to 3 percent slopes, eroded

#### **Map Unit Setting**

National map unit symbol: 1w45 Elevation: 2,450 to 4,200 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 250 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Berino and similar soils: 46 percent Pajarito and similar soils: 45 percent Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Berino**

#### Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

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

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: sandy loam H3 - 50 to 60 inches: loamy sand

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0

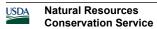
mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 7.3 inches)

#### Interpretive groups

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



Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Hydrologic Soil Group: B

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### **Description of Pajarito**

#### Setting

Landform: Dunes, interdunes, plains

Landform position (three-dimensional): Side slope

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

Parent material: Mixed alluvium and/or eolian sands

#### Typical profile

H1 - 0 to 9 inches: loamy fine sand H2 - 9 to 36 inches: fine sandy loam H3 - 36 to 72 inches: fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

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

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

#### Interpretive groups

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

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

#### **Dune land**

Percent of map unit: 3 percent Hydric soil rating: No

#### Wink

Percent of map unit: 3 percent

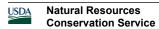
Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

#### **Kermit**

Percent of map unit: 3 percent

Ecological site: R042XC005NM - Deep Sand



Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



# **APPENDIX III**

C-141

### Page 27 of 192

## NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

State of New Mexico Energy Minerals and Natural Resources

JAN 29 2018

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

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

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

Release Notification and Corrective Action							
DAB1803054540	OPERATOR						
Name of Company Devon Energy Production Company 4131	Contact Wesley Ryan-Production Foreman						
Address 6488 Seven Rivers Hwy Artesia, NM 88210 Facility Name Sand 7 Federal 4	Telephone No. 575-390-5436 Facility Type Oil						
Surface Owner Federal Mineral Owner	r Federal API No. 30-015-26417						
· · · · · · · · · · · · · · · · · · ·	ON OF RELEASE						
Unit Letter Section Township Range Feet from the Nor N 07 18S 31E	rth/South Line   Feet from the   East/West Line   County   Eddy						
Latitude_32.756244							
NATUR	E OF RELEASE						
Type of Release Produced Water & Oil	Volume of Release 6.5 BBLS of Produced Water & 1 BBL of Oil  Volume Recovered 5 BBLS of Produced Water & 1 BBL of Oil						
Source of Release Stuffing box on Wellhead	Date and Hour of Occurrence January 15, 2018 9:00AM MST  Date and Hour of Discovery January 15, 2018 9:00AM MST						
Was Immediate Notice Given?	January 15, 2018 9:00AM MST   January 15, 2018 9:00AM MST   If YES, To Whom?						
☐ Yes ☐ No ☐ Not Require	ed BLM- Shelly Tucker & OCD-Mike Bratcher, Crystal Weaver						
By Whom? Mike Shoemaker Was a Watercourse Reached?	Date and Hour January 16, 2018 6:53 AM MST  If YES, Volume Impacting the Watercourse.						
Yes No	N/A						
If a Watercourse was Impacted, Describe Fully.* N/A							
Describe Cause of Problem and Remedial Action Taken.* Found a stuffing box leak at the location. The well was immediately fluid.	ately shut in and a vacuum truck was dispatched to recover any standing						
Describe Area Affected and Cleanup Action Taken.* 6.5 BBLS of Produce Water & 1 BBL of Oil was released from the stuffing box on the wellhead. A vacuum truck was dispatched and 5 BBLS of Produced Water & 1 BBL of Oil was recovered. The release originated from the stuffing box that is located on the well pad. An area approximately 30'x 30' on well pad was affected by the release. None of the released fluid left well pad. An environmental contractor will be contacted to assist with delineation and remediation efforts.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
	OIL CONSERVATION DIVISION						
Signature: Jennifer Reyna							
Printed Name: Jennifer Reyna	Approved by Environmental Specialist ( ) MANULEME						
Title: Field Admin Support	Approval Date: 13018 Expiration Date: NIA						
E-mail Address: Jennifer.Reyna@dvn.com	Conditions of Approval:						
Date: 1/18/2018 Phone: 575.746.5588 Attach Additional Sheets If Necessary	See attached arp-1593						

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/29/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 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 2 office in  $\frac{ARTESIA}{ARTESIA}$  on or before  $\frac{3/1/2018}{2}$ . 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; C<sub>6</sub> thru C<sub>36</sub>), 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; C<sub>6</sub> thru C<sub>36</sub>), 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

#### **Bratcher, Mike, EMNRD**

From:

Reyna, Jennifer < Jennifer.Reyna@dvn.com>

Sent:

Monday, January 29, 2018 4:08 PM

To:

Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; 'Shelly Tucker (stucker@blm.gov)'

Cc:

Fulks, Brett; Shoemaker, Mike

Subject:

Sand 7 Fed 4\_6.5 bbls pw & 1 bbl oil\_1.15.18

**Attachments:** 

Sand 7 Fed 4\_6.5 bbls pw & 1 bbl oil\_1.15.18 inital C-141.doc; Sand 7 Fed 4\_6.5 bbls pw

& 1 bbl oil\_1.15.18 GIS Image.pdf

Good Afternoon,

Attached please find the Initial C-141 and GIS Image for the 6.5 bbls of produced water and 1 bbl of oil release at the Sand 7 Federal 4 on 1.15.18.

If you have any questions please feel free to contact me.

Thank you,

Jennífer Reyna Field Admin Support

Field Admin Support Production B-Schedule

Devon Energy Corporation P.O. Box 250 Artesia, NM 88211 575 746 5588

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



#### **Bratcher, Mike, EMNRD**

From:

Shoemaker, Mike < Mike. Shoemaker@dvn.com>

Sent:

Tuesday, January 16, 2018 6:53 AM

To:

Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)

Cc:

Fulks, Brett

Subject:

Sand 7 Federal 4 (API #30-015-26417)

Good Morning,

Devon had the following release occur at 9:00 AM MST on 01/15/18. The incident is described below.

- 1. Sand 7 Federal 4 (API #30-015-26417)
  - a. Found a stuffing box leak at the location. The well was immediately shut in and a vacuum truck was dispatched to recover any standing fluid. Approximately 7.73 bbls of mixed fluid was released and approximately 6 bbls was recovered.

A C-141 will be prepared and submitted with GPS coordinates of the areas affected.

Thanks,

Mike Shoemaker EHS Representative

#### **Devon Energy Corporation**

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

## **Release Notification**

			Resp	onsi	ible Part	y				
Responsible Party: Devon Energy						OGRID: 328947				
Contact Na	me: Tom By	num			Contact To	elephone: 580-748-1	613			
Contact ema	ail: <u>Tom.Byn</u>	um@dvn.com			Incident #	(assigned by OCD): NAE	31914957336			
Contact mai	iling address:	PO Box 250 Arte	sia, NM 88211							
			Location	of R	Release S	ource				
Latitude 32.	756244	Longitud	e <u>-103.909982</u>		_(NAD 83 in de	cimal degrees to 5 decima	al places)			
Site Name: S	Sand 7 Federa	al 4			Site Type:	Oil Production				
Date Release	Discovered	: 01/15/2018			API# (if app	plicable) 30-015-26417				
Unit Letter   Section   Township   Range					County					
N	07	18S	31E	Edd						
Surface Own		Federal Ti	Nature and	d Vo	lume of 1	Release	mes provided below)			
Crude O		Volume Release				Volume Recovered (bbls)				
Produced	d Water	Volume Release	d (bbls) 6.5 bbl			Volume Recovered (bbls) 5				
		Is the concentrate produced water	tion of dissolved o >10,000 mg/l?	chlorid	e in the	he Yes No				
Condensate Volume Released (bbls)					Volume Recovered (bbls)					
Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)					
Other (de	escribe)	Volume/Weight	Released (provid	e units	)	Volume/Weight R	ecovered (provide units)			
	box develop						tched to recover any standing fluid. elease exited the well pad area.			

Page 34 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environr failed to adequately investig	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Rebe	cca Pons Title: Project Manager
Signature:	Date: <u>12/3/2020</u>
email: Rpons@tal	onlpe.com Telephone: <u>575-441-0980</u>
OCD Only	
Received by:	Date:

	Page 35 of 192
Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
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?						
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 <b>not</b> 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.						
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data</li> <li>□ Data table of soil contaminant concentration data</li> <li>□ Depth to water determination</li> <li>□ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>□ Boring or excavation logs</li> <li>□ Photographs including date and GIS information</li> <li>□ Topographic/Aerial maps</li> <li>□ Laboratory data including chain of custody</li> </ul>	ls.					
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						

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.

Received by OCD: 12/5/2022 12:47:33 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 36 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Dale Woodall	Title:Env. Professional	
Signature:	Date:12/5/2022	
email:dale.woodall@dvn.com	Telephone:575-748-1838	
OCD Only		
Received by:	Date:	

	Page 37 of 1	92
Incident ID	NAB1803054540	
District RP	2RP-4593	
Facility ID	30-015-26417	
Application ID		

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the pl	lan.							
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>								
Deferral Requests Only: Each of the following items must be confirmed as part of a	any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.								
Extents of contamination must be fully delineated.								
Contamination does not cause an imminent risk to human health, the environment,	or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name: Rebecca Pons Title: Project Manager								
Signature: Date: _10/26?20	020							
email: <u>Rpons@talonlpe.com</u> Telephone: <u>575-441-0980</u>								
OCD Only								
Received by: Date:								
Approved	Denied Deferral Approved							
Signature: Date:								

Page 38 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
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.								
	11 NMAC								
Note: appropriate OCD District office must be notified 2 days prior to liner inspection)									
☐ 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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman 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								
Printed Name: Tom Bynum	Title: EHS Consultant								
Signature: Tom Bynum	Date: 12/3/2020								
Signature:	Telephone: <u>575-748-2663</u>								
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:	Date:								
Printed Name:	Title:								



# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

### **Devon Energy Sand 7 Federal 4**

#### PHOTO DOCUMENTATION



**Excavation West** 



N Sidewall



Completion looking East



**Excavation South** 





Completion looking North



# APPENDIX V

# 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 28, 2020

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

RE: Sands 7 Fed 4 Sand 4 OrderNo.: 2009B68

#### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 21 sample(s) on 9/19/2020 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:00:00 AM

 Lab ID:
 2009B68-001
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 12:26:51 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/22/2020 7:11:03 PM	55318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 7:11:03 PM	55318
Surr: DNOP	107	30.4-154	%Rec	1	9/22/2020 7:11:03 PM	55318
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Surr: BFB	87.9	75.3-105	%Rec	1	9/23/2020 6:52:59 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Toluene	ND	0.048	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Xylenes, Total	ND	0.095	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/23/2020 6:52:59 PM	55309

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 1 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:05:00 AM

 Lab ID:
 2009B68-002
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 1:04:04 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/22/2020 7:21:06 PM	55318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 7:21:06 PM	55318
Surr: DNOP	109	30.4-154	%Rec	1	9/22/2020 7:21:06 PM	55318
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 7:16:23 PM	55309
Surr: BFB	85.3	75.3-105	%Rec	1	9/23/2020 7:16:23 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 7:16:23 PM	55309
Toluene	ND	0.048	mg/Kg	1	9/23/2020 7:16:23 PM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 7:16:23 PM	55309
Xylenes, Total	ND	0.096	mg/Kg	1	9/23/2020 7:16:23 PM	55309
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	9/23/2020 7:16:23 PM	55309

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

Qualifiers:

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

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

Page 2 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:10:00 AM

 Lab ID:
 2009B68-003
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 2:06:05 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/22/2020 8:01:13 PM	55322
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 8:01:13 PM	55322
Surr: DNOP	104	30.4-154	%Rec	1	9/22/2020 8:01:13 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/23/2020 7:39:48 PM	55309
Surr: BFB	90.5	75.3-105	%Rec	1	9/23/2020 7:39:48 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 7:39:48 PM	55309
Toluene	ND	0.049	mg/Kg	1	9/23/2020 7:39:48 PM	55309
Ethylbenzene	ND	0.049	mg/Kg	1	9/23/2020 7:39:48 PM	55309
Xylenes, Total	ND	0.098	mg/Kg	1	9/23/2020 7:39:48 PM	55309
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	9/23/2020 7:39:48 PM	55309

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

Qualifiers:

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

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

Page 3 of 29

Date Reported: 9/28/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:15:00 AM

 Lab ID:
 2009B68-004
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 9/25/2020 2:18:30 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.7 mg/Kg 9/22/2020 8:31:10 PM Motor Oil Range Organics (MRO) ND 55322 48 mg/Kg 1 9/22/2020 8:31:10 PM Surr: DNOP 90.3 9/22/2020 8:31:10 PM 55322 30.4-154 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 9/23/2020 8:03:26 PM Gasoline Range Organics (GRO) ND 55309 4.9 mg/Kg 1 Surr: BFB 88.8 75.3-105 %Rec 9/23/2020 8:03:26 PM 55309 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 9/23/2020 8:03:26 PM Benzene 0.024 mg/Kg 55309 Toluene ND 0.049 mg/Kg 9/23/2020 8:03:26 PM 55309 Ethylbenzene ND 0.049 mg/Kg 1 9/23/2020 8:03:26 PM 55309 Xylenes, Total ND 0.098 mg/Kg 9/23/2020 8:03:26 PM 55309 Surr: 4-Bromofluorobenzene 99.0 80-120 %Rec 9/23/2020 8:03:26 PM 55309

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

Qualifiers:

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

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

Page 4 of 29

Date Reported: 9/28/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:20:00 AM

 Lab ID:
 2009B68-005
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 220 60 mg/Kg 20 9/25/2020 2:30:54 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 340 9.6 mg/Kg 9/23/2020 3:23:31 PM 55322 Motor Oil Range Organics (MRO) 370 48 mg/Kg 1 9/23/2020 3:23:31 PM 55322 Surr: DNOP 98.1 55322 30.4-154 %Rec 9/23/2020 3:23:31 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 9/23/2020 8:26:49 PM Gasoline Range Organics (GRO) ND 55309 4.8 mg/Kg 1 Surr: BFB 88.3 75.3-105 %Rec 9/23/2020 8:26:49 PM 55309 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 9/23/2020 8:26:49 PM Benzene 0.024 mg/Kg 55309 Toluene ND 0.048 mg/Kg 9/23/2020 8:26:49 PM 55309 Ethylbenzene ND 0.048 mg/Kg 1 9/23/2020 8:26:49 PM 55309 Xylenes, Total ND 0.096 mg/Kg 9/23/2020 8:26:49 PM 55309 Surr: 4-Bromofluorobenzene 98.6 80-120 %Rec 9/23/2020 8:26:49 PM 55309

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 5 of 29

Date Reported: 9/28/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:25:00 AM

 Lab ID:
 2009B68-006
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 240 60 mg/Kg 20 9/25/2020 2:43:18 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 27 9.3 mg/Kg 9/22/2020 8:51:15 PM Motor Oil Range Organics (MRO) ND 55322 47 mg/Kg 1 9/22/2020 8:51:15 PM Surr: DNOP 9/22/2020 8:51:15 PM 55322 113 30.4-154 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 9/23/2020 8:50:20 PM Gasoline Range Organics (GRO) ND 55309 4.9 mg/Kg 1 Surr: BFB 90.8 75.3-105 %Rec 9/23/2020 8:50:20 PM 55309 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 9/23/2020 8:50:20 PM Benzene 0.025 mg/Kg 55309 Toluene ND 0.049 mg/Kg 9/23/2020 8:50:20 PM 55309 Ethylbenzene ND 0.049 mg/Kg 1 9/23/2020 8:50:20 PM 55309 Xylenes, Total ND 0.099 mg/Kg 9/23/2020 8:50:20 PM 55309 Surr: 4-Bromofluorobenzene 102 80-120 %Rec 9/23/2020 8:50:20 PM 55309

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

Qualifiers:

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

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

Page 6 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon Artesia

**Project:** Sands 7 Fed 4 Sand 4

**Lab ID:** 2009B68-007

Client Sample ID: S2 3'

**Collection Date:** 9/18/2020 9:30:00 AM

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	240	60	mg/Kg	20	9/25/2020 2:55:43 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/22/2020 9:01:13 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 9:01:13 PM	55322
Surr: DNOP	139	30.4-154	%Rec	1	9/22/2020 9:01:13 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Surr: BFB	89.8	75.3-105	%Rec	1	9/23/2020 9:13:55 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Toluene	ND	0.046	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Ethylbenzene	ND	0.046	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Xylenes, Total	ND	0.093	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Surr: 4-Bromofluorobenzene	99.7	80-120	%Rec	1	9/23/2020 9:13:55 PM	55309

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

- 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 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:35:00 AM

 Lab ID:
 2009B68-008
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	280	59	mg/Kg	20	9/25/2020 3:08:07 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/22/2020 9:11:17 PM	55322
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/22/2020 9:11:17 PM	55322
Surr: DNOP	125	30.4-154	%Rec	1	9/22/2020 9:11:17 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Surr: BFB	88.1	75.3-105	%Rec	1	9/23/2020 9:37:16 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Toluene	ND	0.047	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Ethylbenzene	ND	0.047	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Xylenes, Total	ND	0.093	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/23/2020 9:37:16 PM	55309

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 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:40:00 AM

 Lab ID:
 2009B68-009
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	170	60		mg/Kg	20	9/25/2020 3:20:31 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	5900	490		mg/Kg	50	9/22/2020 9:21:22 PM	55322
Motor Oil Range Organics (MRO)	4600	2400		mg/Kg	50	9/22/2020 9:21:22 PM	55322
Surr: DNOP	0	30.4-154	S	%Rec	50	9/22/2020 9:21:22 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Surr: BFB	94.3	75.3-105	D	%Rec	5	9/23/2020 11:10:59 PM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Toluene	ND	0.25	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Ethylbenzene	ND	0.25	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Xylenes, Total	ND	0.49	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Surr: 4-Bromofluorobenzene	99.7	80-120	D	%Rec	5	9/23/2020 11:10:59 PM	55309

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 Quantitative 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 9 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:45:00 AM

 Lab ID:
 2009B68-010
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	60	mg/Kg	20	9/25/2020 3:32:56 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/22/2020 9:31:21 PM	55322
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 9:31:21 PM	55322
Surr: DNOP	107	30.4-154	%Rec	1	9/22/2020 9:31:21 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Surr: BFB	87.5	75.3-105	%Rec	1	9/23/2020 11:58:14 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Toluene	ND	0.048	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Xylenes, Total	ND	0.097	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	9/23/2020 11:58:14 PM	55309

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

Qualifiers:

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

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

Page 10 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:50:00 AM

 Lab ID:
 2009B68-011
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 3:45:20 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/22/2020 9:41:28 PM	55322
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/22/2020 9:41:28 PM	55322
Surr: DNOP	99.6	30.4-154	%Rec	1	9/22/2020 9:41:28 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Surr: BFB	86.3	75.3-105	%Rec	1	9/24/2020 12:21:48 AM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Toluene	ND	0.046	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Ethylbenzene	ND	0.046	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Xylenes, Total	ND	0.091	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	9/24/2020 12:21:48 AM	55309

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 11 of 29

Date Reported: 9/28/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:55:00 AM

 Lab ID:
 2009B68-012
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 66 59 mg/Kg 20 9/25/2020 3:57:45 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 11 9.1 mg/Kg 9/22/2020 9:51:35 PM Motor Oil Range Organics (MRO) ND 55322 46 mg/Kg 1 9/22/2020 9:51:35 PM Surr: DNOP 55322 105 30.4-154 %Rec 9/22/2020 9:51:35 PM Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** Gasoline Range Organics (GRO) ND 9/24/2020 12:45:17 AM 55309 4.8 mg/Kg Surr: BFB 87.0 75.3-105 %Rec 9/24/2020 12:45:17 AM 55309 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 9/24/2020 12:45:17 AM 55309 Benzene 0.024 mg/Kg Toluene ND 0.048 mg/Kg 9/24/2020 12:45:17 AM 55309 Ethylbenzene ND 0.048 mg/Kg 9/24/2020 12:45:17 AM 55309 Xylenes, Total ND 0.095 mg/Kg 9/24/2020 12:45:17 AM 55309 Surr: 4-Bromofluorobenzene 9/24/2020 12:45:17 AM 55309 96.6 80-120 %Rec

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 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:00:00 AM

 Lab ID:
 2009B68-013
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	9/25/2020 4:34:58 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	290	9.9		mg/Kg	1	9/23/2020 4:11:17 PM	55322
Motor Oil Range Organics (MRO)	400	50		mg/Kg	1	9/23/2020 4:11:17 PM	55322
Surr: DNOP	109	30.4-154		%Rec	1	9/23/2020 4:11:17 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Surr: BFB	91.8	75.3-105	D	%Rec	5	9/24/2020 1:08:43 AM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Toluene	ND	0.24	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Ethylbenzene	ND	0.24	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Xylenes, Total	ND	0.47	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Surr: 4-Bromofluorobenzene	98.5	80-120	D	%Rec	5	9/24/2020 1:08:43 AM	55309

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

Qualifiers:

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

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

Page 13 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:05:00 AM

 Lab ID:
 2009B68-014
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 4:47:22 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	9/22/2020 10:12:07 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 10:12:07 PM	55322
Surr: DNOP	99.5	30.4-154	%Rec	1	9/22/2020 10:12:07 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Surr: BFB	86.2	75.3-105	%Rec	1	9/24/2020 1:32:05 AM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Toluene	ND	0.048	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	9/24/2020 1:32:05 AM	55309

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

Qualifiers:

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

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

Page 14 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:10:00 AM

 Lab ID:
 2009B68-015
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 4:59:46 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/22/2020 10:22:17 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 10:22:17 PM	55322
Surr: DNOP	97.7	30.4-154	%Rec	1	9/22/2020 10:22:17 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Surr: BFB	85.3	75.3-105	%Rec	1	9/24/2020 1:55:26 AM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Toluene	ND	0.046	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Ethylbenzene	ND	0.046	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Xylenes, Total	ND	0.092	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/24/2020 1:55:26 AM	55309

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

Qualifiers:

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

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

Page 15 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:15:00 AM

 Lab ID:
 2009B68-016
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 5:12:11 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/22/2020 10:32:31 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 10:32:31 PM	55322
Surr: DNOP	95.1	30.4-154	%Rec	1	9/22/2020 10:32:31 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Surr: BFB	90.4	75.3-105	%Rec	1	9/24/2020 2:18:43 AM	55309
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Toluene	ND	0.048	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/24/2020 2:18:43 AM	55309

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

Qualifiers:

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

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

Page 16 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG1 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:30:00 AM

 Lab ID:
 2009B68-017
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	200	60		mg/Kg	20	9/25/2020 5:24:35 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE OR					Analyst	BRM	
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	9/23/2020 4:59:00 PM	55322
Motor Oil Range Organics (MRO)	380	49		mg/Kg	1	9/23/2020 4:59:00 PM	55322
Surr: DNOP	115	30.4-154		%Rec	1	9/23/2020 4:59:00 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Surr: BFB	85.5	75.3-105	D	%Rec	5	9/24/2020 2:42:05 AM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Toluene	ND	0.24	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Ethylbenzene	ND	0.24	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Xylenes, Total	ND	0.48	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Surr: 4-Bromofluorobenzene	99.1	80-120	D	%Rec	5	9/24/2020 2:42:05 AM	55309

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

Qualifiers:

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

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

Page 17 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG2 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:35:00 AM

 Lab ID:
 2009B68-018
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	9/25/2020 5:37:00 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	9/24/2020 12:08:47 PM	55322
Motor Oil Range Organics (MRO)	53	49		mg/Kg	1	9/24/2020 12:08:47 PM	55322
Surr: DNOP	92.4	30.4-154		%Rec	1	9/24/2020 12:08:47 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Surr: BFB	89.7	75.3-105	D	%Rec	5	9/24/2020 3:05:33 AM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Toluene	ND	0.23	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Ethylbenzene	ND	0.23	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Xylenes, Total	ND	0.46	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Surr: 4-Bromofluorobenzene	99.8	80-120	D	%Rec	5	9/24/2020 3:05:33 AM	55309

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

Qualifiers:

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

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

Page 18 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG3 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:40:00 AM

 Lab ID:
 2009B68-019
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	270	59		mg/Kg	20	9/25/2020 5:49:25 PM	55448
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	ND	9.5		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Surr: BFB	106	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	7800	490		mg/Kg	50	9/22/2020 11:03:06 PM	55322
Motor Oil Range Organics (MRO)	8200	2400		mg/Kg	50	9/22/2020 11:03:06 PM	55322
Surr: DNOP	0	30.4-154	S	%Rec	50	9/22/2020 11:03:06 PM	55322
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	JMR
Benzene	ND	0.047		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Toluene	ND	0.095		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Ethylbenzene	ND	0.095		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Xylenes, Total	ND	0.19		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Surr: 1,2-Dichloroethane-d4	85.3	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
Surr: 4-Bromofluorobenzene	76.0	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
Surr: Dibromofluoromethane	104	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
Surr: Toluene-d8	96.9	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319

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

Qualifiers:

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

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

Page 19 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG4 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:45:00 AM

 Lab ID:
 2009B68-020
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	550	60	mg/Kg	20	9/25/2020 6:01:49 PM	55448
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Surr: BFB	103	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	130	10	mg/Kg	1	9/23/2020 5:47:03 PM	55322
Motor Oil Range Organics (MRO)	410	50	mg/Kg	1	9/23/2020 5:47:03 PM	55322
Surr: DNOP	94.2	30.4-154	%Rec	1	9/23/2020 5:47:03 PM	55322
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	-				Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Toluene	ND	0.048	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Surr: 1,2-Dichloroethane-d4	90.4	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
Surr: Dibromofluoromethane	104	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
Surr: Toluene-d8	95.4	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319

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

Qualifiers:

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

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

Page 20 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG5 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:50:00 AM

 Lab ID:
 2009B68-021
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 9:32:46 PM	55453
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Surr: BFB	101	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	10	9.3	mg/Kg	1	9/23/2020 6:35:06 PM	55322
Motor Oil Range Organics (MRO)	59	47	mg/Kg	1	9/23/2020 6:35:06 PM	55322
Surr: DNOP	105	30.4-154	%Rec	1	9/23/2020 6:35:06 PM	55322
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Toluene	ND	0.048	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
Surr: Toluene-d8	96.2	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319

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 29

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia

Project: Sands 7 Fed 4 Sand 4

Sample ID: MB-55448 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55448 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530604 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-55448 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55448 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530605 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-55453 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **55453** RunNo: **72181** 

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530640 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-55453 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55453 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530641 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.9 90 110

#### Qualifiers:

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

- 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 29

### Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#: **2009B68** 

28-Sep-20

Client:	Talon Artesia
Project:	Sands 7 Fed 4 Sand 4

Sample ID: 2009B68-003AMS

Client ID: S1 3'	Batch ID: 5	5322	F	RunNo: <b>7</b> 2	2063				
Prep Date: 9/21/2020	Analysis Date:	9/22/2020	S	SeqNo: 2	524637	Units: mg/K	g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49 9.0	6 48.03	3.370	94.3	15	184			
Surr: DNOP	4.4	4.803		92.3	30.4	154			
Sample ID: <b>2009B68-003AN</b>	ISD SampType: N	/ISD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: S1 3'	Batch ID: 5	5322	F	RunNo: <b>7</b> 2	2063				
Prep Date: 9/21/2020	Analysis Date:	9/22/2020	S	SeqNo: 2	524638	Units: mg/K	g		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49 9.9	9 49.60	3.370	91.5	15	184	0.215	23.9	
Surr: DNOP	4.6	4.960		93.4	30.4	154	0	0	
Sample ID: LCS-55297	SampType: <b>L</b>	.cs	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 5	5297	F	RunNo: <b>7</b> 2	2063				
Prep Date: 9/21/2020	Analysis Date:	9/22/2020	S	SeqNo: 2	524681	Units: %Rec	;		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.7	5.000		154	30.4	154			

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

Sample ID: LCS-55318	SampT	ype: <b>LC</b>	S	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 55318 RunNo: 72063										
Prep Date: 9/21/2020	Analysis Da	ate: <b>9/</b> 2	22/2020	S	SeqNo: 2	524682	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	60	10	50.00	0	119	70	130				
Surr: DNOP	3.7		5.000		74.6	30.4	154				

Sample ID: LCS-55322	SampT	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	Batch ID: <b>55322</b> RunNo: <b>72063</b>										
Prep Date: 9/21/2020	Analysis Date: 9/22/2020			8	SeqNo: <b>2524684</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	46	10	50.00	0	91.8	70	130					
Surr: DNOP	4.0		5.000		80.5	30.4	154					

Sample ID: LCS-55325	SampType: LCS	TestCode: EPA	A Method 8015M/D: Die	esel Range	Organics			
Client ID: LCSS	Batch ID: 55325	RunNo: <b>720</b>	No: <b>72063</b>					
Prep Date: 9/21/2020	Analysis Date: 9/23/2020	SeqNo: <b>252</b>	24685 Units: %Red	Units: %Rec				
Analyte	Result PQL SPK va	ue SPK Ref Val %REC I	LowLimit HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	4.6 5.0	00 92.7	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 23 of 29

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: MB-55297 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **55297** RunNo: **72063** 

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524686 Units: %Rec

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

Surr: DNOP 13 10.00 127 30.4 154

Sample ID: MB-55318 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 55318 RunNo: 72063 Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524687 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 7.2 10.00 72.3 30.4 154

Sample ID: MB-55322 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 55322 RunNo: 72063 Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524688 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 10

30.4

154

 Diesel Range Organics (DRO)
 ND
 10

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 8.6
 10.00
 86.2

Sample ID: MB-55325 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **55325** RunNo: **72063** 

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524689 Units: %Rec

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

Surr: DNOP 9.1 10.00 90.9 30.4 154

Sample ID: LCS-55398 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 55398 RunNo: 72109

Prep Date: 9/23/2020 Analysis Date: 9/24/2020 SegNo: 2527717 Units: %Rec

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

 Surr: DNOP
 5.3
 5.000
 106
 30.4
 154

 Sample ID:
 MB-55398
 SampType:
 MBLK
 TestCode:
 EPA Method 8015M/D:
 Diesel Range Organics

 Client ID:
 PBS
 Batch ID:
 55398
 RunNo:
 72109

 Prep Date:
 9/23/2020
 Analysis Date:
 9/24/2020
 SeqNo:
 2527718
 Units:
 %Rec

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

Surr: DNOP 11 10.00 111 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 24 of 29

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia

Project: Sands 7 Fed 4 Sand 4

Sample ID: mb-55309 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 55309 RunNo: 72074

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525630 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 88.8 75.3 105

Sample ID: Ics-55309 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 55309 RunNo: 72074

970

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525632 Units: mg/Kg

1000

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 21 5.0 25.00 0 84.7 72.5 106

97.0

75.3

105

#### Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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 25 of 29

#### Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia

Project: Sands 7 Fed 4 Sand 4

Surr: 4-Bromofluorobenzene

Sample ID: mb-55309 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 55309 RunNo: 72074 Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525658 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

102

80

120

Sample ID: LCS-55309	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batch ID: <b>55309</b> RunNo: <b>72074</b>											
Prep Date: 9/21/2020	Analysis D	Date: 9/	23/2020	\$	525659	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.91	0.025	1.000	0	90.9	80	120					
Toluene	0.95	0.050	1.000	0	95.2	80	120					
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120					
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120					
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120					

1.000

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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 26 of 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: Ics-55319	SampT	Type: <b>LC</b>	S4	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batcl	h ID: <b>55</b> 3	319	RunNo: <b>72117</b>							
Prep Date: 9/21/2020	Analysis Date: 9/23/2020			SeqNo: <b>2527379</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.025	1.000	0	99.2	80	120				
Toluene	1.0	0.050	1.000	0	104	80	120				
Ethylbenzene	1.0	0.050	1.000	0	103	80	120				
Xylenes, Total	3.2	0.10	3.000	0	106	80	120				
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.9	70	130				
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130				
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130				
Surr: Toluene-d8	0.48		0.5000		95.2	70	130				

Sample ID: <b>mb-55319</b>	SampType: MBLK  Batch ID: 55319  Analysis Date: 9/23/2020			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS				F	RunNo: <b>7</b>	2117				
Prep Date: 9/21/2020				9	SeqNo: 2	527380	/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.8	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.48		0.5000		95.8	70	130			

Sample ID: 2009B68-020AMS	TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: BG4 0-1'	Batch ID: 55319				RunNo: <b>72117</b>					
Prep Date: 9/21/2020	Analysis D	ate: <b>9/</b> 2	24/2020	SeqNo: 2527383 Units: mg/Kg				g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9461	0	94.2	71.1	115			•
Toluene	0.93	0.047	0.9461	0	98.8	79.6	132			
Ethylbenzene	0.94	0.047	0.9461	0	99.3	83.8	134			
Xylenes, Total	3.0	0.095	2.838	0	105	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.42		0.4730		88.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4730		99.8	70	130			
Surr: Dibromofluoromethane	0.50		0.4730		105	70	130			
Surr: Toluene-d8	0.45		0.4730		94.5	70	130			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 27 of 29

#### Hall Environmental Analysis Laboratory, Inc.

0.47

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia

Project: Sands 7 Fed 4 Sand 4

Surr: Toluene-d8

Sample ID: 2009B68-020AMSD SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List BG4 0-1' Client ID: RunNo: 72117 Batch ID: 55319 Prep Date: 9/21/2020 Analysis Date: 9/24/2020 SeqNo: 2527384 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene 0.86 0.024 0.9747 0 88.7 71.1 115 2.98 20 Toluene 0.98 0.049 0.9747 0 101 79.6 132 5.10 20 0.049 0.9747 0 104 83.8 7.19 20 Ethylbenzene 1.0 134 20 Xylenes, Total 3.1 0.097 2.924 0 105 82.4 132 2.98 Surr: 1,2-Dichloroethane-d4 0.43 0.4873 88.4 70 130 0 0 Surr: 4-Bromofluorobenzene 0.48 0.4873 99.3 70 130 0 0 Surr: Dibromofluoromethane 0.50 0.4873 102 70 130 0 0

95.7

70

130

0

0

0.4873

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to 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 28 of 29

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: Ics-55319 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS Batch ID: 55319 RunNo: 72117

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527412 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 89.0
 70
 130

 Surr: BFB
 530
 500.0
 106
 70
 130

Sample ID: mb-55319 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: **55319** RunNo: **72117** 

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527413 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
 510
 500.0
 103
 70
 130

Sample ID: 2009B68-019AMS SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **BG3 0-1'** Batch ID: **55319** RunNo: **72117** 

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527415 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 19 9.5 23.79 0 78.4 49.2 122 Surr: BFB 70 951.5 1000 106 130

Sample ID: 2009B68-019AMSD SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **BG3 0-1'** Batch ID: **55319** RunNo: **72117** 

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527416 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 22 91.4 49.2 122 9.7 24.37 17.7 20 Surr: BFB 1000 974.7 104 70 130 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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 29



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

### Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: Talon Artesia Work Order Number: 2009B68 RcptNo: 1 Harring. Received By: 9/19/2020 7:30:00 AM Juan Rojas Completed By: Juan Rojas 9/19/2020 9:06:40 AM Reviewed By: JR 9/19/70 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No \_ Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA  $\square$ 4. Were all samples received at a temperature of >0° C to 6.0°C No Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 8. Was preservative added to bottles? No 🗸 NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA 🗸 Yes Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 11. Does paperwork match bottle labels? Yes 🗸 (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 Checked by: M 4/19/W 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? NA 🗸 Yes No Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information

Page 1 of 1

Cooler No

Temp °C

Condition

Good

Seal Intact

Seal No

Seal Date

Signed By

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	Tel 606 346 3076 Tel 707 34 400	1er. 505-545-5975 Fax 505-545-4107		80 8, 8,	SIWI	7 DR(8) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	)31, (50 or	D)Clock thoolal Netse NC (A)	B015 (Mer by 8 Ir,	7PH:8 3081 3081 3 F, 3 F, 3 F, 3 S T S S S S S S S S S S S S S S S S S	F												Remarks: Please cc the following via amail:	Dadkins@talonlpe.com 8:11 devon direct	Kpons@talonipe.com W/o# 20840633	If necessary, samples submitted to Hall Environmental may be subcontracted to ether accredited laboratories. This serves as notice of this noscipility. Any sub-contracted data will be already.
Turn-Around Time: 4-0ay	50	(Sand 4)	Project #: 706794 ,364,0/		Project Manager: R. Pans		98) s	Roy Be 11	# Off Coolers   The coolers	Continue CEST COLOR AND		Container Preservative HEAL No. ココープリント Type and # Type	Tes/6001 -1001	034	3937	2000	500	500	900-	1001	5001	0.00			Time	MMM 2018/11 CAMM	Via: C Date Time	contracted to 6ther accredited laboratories. This serves as notice of this nos
Chain-of-Custody Record	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #:	email or Fax#: (575) 746-8905	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	☐ Az Compliance ☐ Other	,	- Annual Control of the Control of t		Date Time Matrix Sample Name	2/18/20 9:00 50il 51 0-11	9:05 / 51 2'	15 (5) 01:6						9:40 53 0-11	9:45 53 2	9:50 / 53 31	19:45 ( 53 4"	Date Time: Relinquished by:	2	2000	If necessary, samples submitted to Hall Environmental may be subj

Released to Imaging: 2/2/2023 2:37:56 PM

Turn-Around Time: 4-0ay		Project Name: Sands > Fed #4	(Sand 4)	.364.01 Tel 505.345.3975	Analysis	Project Manager: R. Pans	B,z 8051	PO PC	Sampler: Roy 8e // DR 3270	NS   1   NS   NS   NS   NS   NS   NS   N	iers: 10 103	Plincluding CE): $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$	1804: 5 (M): 6 (M): 7 (M): 8 AS: 8 AS: 9 (S: 9 (S:	Type and # Type 7 (C) RTH P ROBER RS 80 8 STO	X X X 500 - 100/17	21	3.	7,5		1-0	-1-0	1-0	11-0		Received by: Via: Date Time Remarks: Please cc the follow of the following the followi	Received by: Via: U Date Time Rpons@talonlpe.com	3
Chain-of-Custody Record	ימוסון בר ב	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #:	email or Fax#: (575) 746-8905	/QC Package:	☐ Standard ☐ Level 4 (Full Validation)		□ NELAC □ Other	□ EDD (Type)			Date Time Matrix Sample Name		10:05 / 54 21	45 )	15	86.10	P.G.2	/ RG 3				Potes Time: Relinquished by:	Date: Time: Relinquished by:	



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

November 30, 2020

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

RE: Sand 7 Fed 4 OrderNo.: 2011B50

#### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/24/2020 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1A@4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:30:00 PM

 Lab ID:
 2011B50-001
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>VP</b>
Chloride	ND	60	mg/Kg	20	11/25/2020 8:51:05 PM 56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/25/2020 7:53:20 PM 56634
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/25/2020 7:53:20 PM 56634
Surr: DNOP	118	30.4-154	%Rec	1	11/25/2020 7:53:20 PM 56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 11:53:47 AM 56630
Surr: BFB	91.1	75.3-105	%Rec	1	11/25/2020 11:53:47 AM 56630
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 11:53:47 AM 56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM 56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM 56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 11:53:47 AM 56630
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/25/2020 11:53:47 AM 56630

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

Qualifiers:

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

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

Page 1 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:40:00 PM

 Lab ID:
 2011B50-002
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	220	60	mg/Kg	20	11/25/2020 9:28:19 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Surr: DNOP	134	30.4-154	%Rec	1	11/25/2020 9:03:32 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: BFB	88.7	75.3-105	%Rec	1	11/25/2020 1:04:12 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	11/25/2020 1:04:12 PM	56630

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 2 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:43:00 PM

 Lab ID:
 2011B50-003
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	250	60	mg/Kg	20	11/25/2020 9:40:44 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Surr: DNOP	101	30.4-154	%Rec	1	11/25/2020 9:26:51 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: BFB	89.2	75.3-105	%Rec	1	11/25/2020 1:27:46 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Toluene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Ethylbenzene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Xylenes, Total	ND	0.10	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	11/25/2020 1:27:46 PM	56630

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

Qualifiers:

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

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

Page 3 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S5A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:00:00 PM

 Lab ID:
 2011B50-004
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	170	60	mg/Kg	20	11/25/2020 9:53:08 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Surr: DNOP	93.7	30.4-154	%Rec	1	11/25/2020 9:50:11 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: BFB	88.8	75.3-105	%Rec	1	11/25/2020 1:51:23 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Toluene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Ethylbenzene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Xylenes, Total	ND	0.097	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	11/25/2020 1:51:23 PM	56630

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

Qualifiers:

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

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

Page 4 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: WSW-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:45:00 PM

 Lab ID:
 2011B50-005
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>VP</b>
Chloride	120	60	mg/Kg	20	11/25/2020 10:05:33 PM 56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Surr: DNOP	117	30.4-154	%Rec	1	11/25/2020 10:13:30 PM 56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: BFB	88.2	75.3-105	%Rec	1	11/25/2020 2:14:59 PM 56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Toluene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Ethylbenzene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Xylenes, Total	ND	0.094	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	11/25/2020 2:14:59 PM 56630

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 5 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: MB-56664 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56664 RunNo: 73610

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594675 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-56664 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56664 RunNo: 73610

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594676 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2011B50

30-Nov-20

**Client:** Talon Artesia **Project:** Sand 7 Fed 4

Sample ID: MB-56641 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 56641 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594887 Units: %Rec

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

Surr: DNOP 9.4 10.00 94.2 30.4 154

Sample ID: MB-56634 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 56634 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594888 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual

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

Surr DNOP 11 10.00 108 30.4 154

Sample ID: LCS-56634 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56634 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594890 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual

Diesel Range Organics (DRO) 52 10 50.00 0 104 70 130 Surr: DNOP 4.7 5.000 93.2 30.4 154

Sample ID: LCS-56641 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56641 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594891 Units: %Rec SPK value SPK Ref Val %REC %RPD Result POI LowLimit HighLimit **RPDLimit** Qual

Surr: DNOP 4.6 5.000 91.1 30.4 154

Sample ID: 2011B50-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: S1A@4 Batch ID: 56634 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594948 Units: mg/Kg SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Diesel Range Organics (DRO) 48 9.8 49.07 98.8 15 184

Surr: DNOP 5.1 4.907 104 30.4 154

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S1A@4' Batch ID: 56634 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 9.8 49.07 127 15 184 25.3 23.9 62

#### Qualifiers:

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

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

Page 7 of 11

### Hall Environmental Analysis Laboratory, Inc.

7.0

WO#: **2011B50** *30-Nov-20* 

Client: Talon Artesia
Project: Sand 7 Fed 4

Surr: DNOP

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **\$1A@4'** Batch ID: **56634** RunNo: **73632** 

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

4.907

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

30.4

142

0

154

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

Page 8 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594759 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 75.3 105

Sample ID: Ics-56630 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594760 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.9 72.5 106

Surr: BFB 990 1000 99.1 75.3 105

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594783 Units: %Rec

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

Surr: BFB 910 1000 90.6 75.3 105

Sample ID: Ics-56645 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 56645 RunNo: 73605

970

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594784 Units: %Rec

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

97.4

75.3

105

### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 9 of 11

### Hall Environmental Analysis Laboratory, Inc.

1.0

0.99

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8021B: Volatiles
Client ID: PBS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594808 Units: mg/Kg

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr. 4-Bromofluorobenzene
 1.0

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 99.5
 80
 120

1.000

0.9506

Sample ID: LCS-56630 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 56630 RunNo: 73605 SeqNo: 2594809 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.93 0.025 n 92.8 80 120 Benzene Toluene 0.95 0.050 1.000 0 95.4 80 120 0 95.4 80 0.95 0.050 1.000 120 Ethylbenzene 0 95.3 Xylenes, Total 2.9 0.10 3.000 80 120

Sample ID: 2011b50-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: S1A@4 Batch ID: 56630 RunNo: 73605 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594812 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 96.4 76.3 0.92 0.024 0.9506 120 Benzene O Toluene 0.98 0.9506 102 78.5 120 0.048 0.009951 104 78.1 Ethylbenzene 0.99 0.048 0.9506 0 124 Xylenes, Total 3.0 0.095 2.852 0 104 79.3 125

101

104

80

80

120

120

TestCode: EPA Method 8021B: Volatiles Sample ID: 2011b50-001amsd SampType: MSD Client ID: S1A@4 Batch ID: 56630 RunNo: 73605 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594813 Units: mg/Kg %REC **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD Qual 0.94 0.024 0.9470 0 98.9 76.3 120 2.18 20 Benzene Toluene 0.99 0.047 0.9470 0.009951 103 78.5 120 1.16 20 Ethylbenzene 1.0 0.047 0.9470 0 105 78.1 124 0.729 20 Xylenes, Total 3.0 0.095 2.841 0 105 79.3 125 0.209 20 Surr: 4-Bromofluorobenzene 0.96 0.9470 101 120 0 0 80

### Qualifiers:

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

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

- 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 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594832 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID: LCS-56645 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594833 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

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

Client Name:	Talon Artes	ia	Work	Order Numl	ber: 2011	IB50		RcptNo	: 1
Received By:	Juan Roja	s	11/24/2	020 8:00:00	) AM		Graning.		
Completed By:	Desiree D	ominguez	11/24/2	020 8:31:24	AM		Juneay.		
Reviewed By: S							1173		
Chain of Cust	tody								
1. Is Chain of Cu	ustody compl	ete?			Yes	<b>V</b>	No 🗌	Not Present	
2. How was the s	sample deliv	ered?			Cour	ier			
Log In  3. Was an attem	pt made to c	ool the sampl	es?		Yes	<b>✓</b>	No 🗆	NA 🗌	
4. Were all samp	les received	at a temperat	ure of >0° C t	o 6.0°C	Yes	<b>✓</b>	No 🗌	na 🗆	
5. Sample(s) in p	oroper contai	ner(s)?			Yes	<b>v</b>	No 🗌		
6. Sufficient samp	ple volume fo	or indicated te	st(s)?		Yes	<b>V</b>	No 🗌		
7. Are samples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes	<b>✓</b>	No 🗌		
8. Was preservat	tive added to	bottles?			Yes		No 🗸	NA 🗌	
9. Received at lea	ast 1 vial with	n headspace <	<1/4" for AQ V	OA?	Yes		No 🗌	NA 🗸	
10. Were any sam	nple containe	rs received br	oken?		Yes		No 🗸	# of preserved bottles checked	
11. Does paperwo (Note discrepa					Yes	<b>V</b>	No 🗆	for pH:	r >12 unless noted)
12. Are matrices co	orrectly iden	tified on Chair	of Custody?		Yes	<b>✓</b>	No 🗌	Adjusted?	
13. Is it clear what	analyses we	ere requested?	>		Yes	<b>✓</b>	No 🗌		10 10 1
14. Were all holdin (If no, notify cu	•				Yes	<b>✓</b>	No 🗆	Checked by:	JR 11/24/3
Special Handli							Ü		
15. Was client not			vith this order?		Yes		No 🗌	NA 🗸	
Person I	Notified:	THE RESERVE OF THE PERSON NAMED IN COLUMN		Date		NO SECTION AND ADDRESS OF	SECURIOR SECURITION SECURITIONS		
By Who				Via:	eMa	ail 🗌	Phone  Fax	In Person	
Regardi			CONTRACTOR OF THE PROPERTY OF				SHORE TO THE TERMY ON THE PRODUCT ON THE PRODUCT OF	AND COMMENT OF A COMMENT OF THE COME	
	structions:								
16. Additional ren	marks:								
17. Cooler Inform		0	10-11-	0	<u> </u>		0:		
Cooler No	Temp °C 0.3	Condition Good	Seal Intact	Seal No	Seal D	ate	Signed By		
2	1.1	Good							
3	4.3	Good		-					
4	0.4	Good							

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: Talon LPE	□ Standard	ANALYSIS LABORATORY
408 W Texas St	Project Name:	www.hallenvironmental.com
Mailing Address: Artesia, NM 88210	Sumplies of Long 4	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 575-441-0980	200294.364.01	sis Requ
email or Fax#: (575) 746-8905	Project Manager:	POS (OE)
QA/QC Package:	Rebecca Pons	PCB's
-	Compler.	280 (1) 728 527
Accreditation:   Az Compilance  NFI AC  Other	On Ice: Q Yes   No	\ OS 08\ee .403 .403 10 8 8 10 (AC
(pd)	# of Coolers: H	etallo)(GH)
	Cooler Temp(including cr): See Revenil By	15D eath y 8 g M 8 g M 8 g M 8 d y O A
Time Matrix Sample Name	Container Preservative ADIRSO Type and # Type	BTEX / 8081 Pr EDB (N PAHs b RCRA   120 (S)
		7
41.6	600-	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-003	
1 1/2 0 1/2 1	h00-	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	500-	
7 S W S W		
Date: Time: Relinquished by:	Received by: Via: Date Time	0,
Date: Religible by:	Received by: Via: 0 Date Time	Rpons@talonlpe.com 4.3 to 11 to 11.
6	124/20 8:00	Bsinciair@taionipe.com ひょねひゃ 0.4℃
if necessary, samples submitted to Hail Environmental may be sui	ubcontracted to other accredited laboratories. This serves as notice of	I contracted data will be clearly notated to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

November 30, 2020

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

RE: Sand 7 Fed 4 OrderNo.: 2011B50

#### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/24/2020 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1A@4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:30:00 PM

 Lab ID:
 2011B50-001
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst: \	VP
Chloride	ND	60	mg/Kg	20	11/25/2020 8:51:05 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: (	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/25/2020 7:53:20 PM	56634
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/25/2020 7:53:20 PM	56634
Surr: DNOP	118	30.4-154	%Rec	1	11/25/2020 7:53:20 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: I	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Surr: BFB	91.1	75.3-105	%Rec	1	11/25/2020 11:53:47 AM	56630
EPA METHOD 8021B: VOLATILES					Analyst: I	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/25/2020 11:53:47 AM	56630

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

Qualifiers:

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

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

Page 1 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:40:00 PM

 Lab ID:
 2011B50-002
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	220	60	mg/Kg	20	11/25/2020 9:28:19 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Surr: DNOP	134	30.4-154	%Rec	1	11/25/2020 9:03:32 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: BFB	88.7	75.3-105	%Rec	1	11/25/2020 1:04:12 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	11/25/2020 1:04:12 PM	56630

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 2 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:43:00 PM

 Lab ID:
 2011B50-003
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	250	60	mg/Kg	20	11/25/2020 9:40:44 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Surr: DNOP	101	30.4-154	%Rec	1	11/25/2020 9:26:51 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: BFB	89.2	75.3-105	%Rec	1	11/25/2020 1:27:46 PM	56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Toluene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Ethylbenzene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Xylenes, Total	ND	0.10	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	11/25/2020 1:27:46 PM	56630

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 3 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S5A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:00:00 PM

 Lab ID:
 2011B50-004
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	170	60	mg/Kg	20	11/25/2020 9:53:08 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Surr: DNOP	93.7	30.4-154	%Rec	1	11/25/2020 9:50:11 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: BFB	88.8	75.3-105	%Rec	1	11/25/2020 1:51:23 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Toluene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Ethylbenzene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Xylenes, Total	ND	0.097	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	11/25/2020 1:51:23 PM	56630

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

Qualifiers:

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

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

Page 4 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: WSW-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:45:00 PM

 Lab ID:
 2011B50-005
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>VP</b>
Chloride	120	60	mg/Kg	20	11/25/2020 10:05:33 PM 56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Surr: DNOP	117	30.4-154	%Rec	1	11/25/2020 10:13:30 PM 56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: BFB	88.2	75.3-105	%Rec	1	11/25/2020 2:14:59 PM 56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Toluene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Ethylbenzene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Xylenes, Total	ND	0.094	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	11/25/2020 2:14:59 PM 56630

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

Qualifiers:

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

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

Page 5 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: MB-56664 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **56664** RunNo: **73610** 

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594675 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-56664 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56664 RunNo: 73610

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594676 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: MB-56641 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 56641 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594887 Units: %Rec

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

Surr: DNOP 9.4 10.00 94.2 30.4 154

Sample ID: MB-56634 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 56634 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594888 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr DNOP 11 10.00 108 30.4 154

Sample ID: LCS-56634 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 56634 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594890 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Diesel Range Organics (DRO) 52 10 50.00 0 104 70 130 Surr: DNOP 4.7 5.000 93.2 30.4 154

Sample ID: LCS-56641 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56641 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594891 Units: %Rec SPK value SPK Ref Val %REC %RPD Result POI LowLimit HighLimit **RPDLimit** Qual

Surr: DNOP 4.6 5.000 91.1 30.4 154

Sample ID: 2011B50-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: S1A@4 Batch ID: 56634 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594948 Units: mg/Kg SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual

 Diesel Range Organics (DRO)
 48
 9.8
 49.07
 0
 98.8
 15
 184

 Surr: DNOP
 5.1
 4.907
 104
 30.4
 154

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: \$1A@4' Batch ID: 56634 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 9.8 49.07 127 15 184 25.3 23.9 62

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to 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 11

### Hall Environmental Analysis Laboratory, Inc.

7.0

WO#: **2011B50** *30-Nov-20* 

Client: Talon Artesia
Project: Sand 7 Fed 4

Surr: DNOP

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **\$1A@4'** Batch ID: **56634** RunNo: **73632** 

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

4.907

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

30.4

142

0

154

0

#### Qualifiers:

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

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

Page 8 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594759 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 75.3 105

Sample ID: Ics-56630 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594760 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.9 72.5 106

Surr: BFB 990 1000 99.1 75.3 105

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594783 Units: %Rec

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

Surr: BFB 910 1000 90.6 75.3 105

Sample ID: Ics-56645 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594784 Units: %Rec

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

Surr: BFB 970 1000 97.4 75.3 105

### Qualifiers:

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

- 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 9 of 11

### Hall Environmental Analysis Laboratory, Inc.

1.0

1.0

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

Sample ID: <b>mb-56630</b>	SampT	ype: <b>ME</b>	BLK	TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batcl	n ID: <b>56</b> 6	630	F	tunNo: <b>7</b> 3	3605								
Prep Date: 11/24/2020	Analysis D	Date: 11	/25/2020	S	SeqNo: 2	594808	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	Batch ID: 56630       RunNo: 73605         nalysis Date:       11/25/2020       SeqNo: 2594808       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         ND       0.025         ND       0.050         ND       0.050												

99.5

101

80

80

120

120

1.000

1.000

Sample ID: LCS-56630 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 56630 RunNo: 73605 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594809 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 92.8 80 120 0.93 Benzene Toluene 0.95 0.050 1.000 0 95.4 80 120 0.050 0 95.4 80 120 Ethylbenzene 0.95 1.000 2.9 0.10 3.000 0 95.3 80 120 Xylenes, Total

Sample ID: 2011b50-001ams	Samp	Гуре: М	3	TestCode: EPA Method 8021B: Volatiles										
Client ID: S1A@4'	Batc	h ID: <b>56</b>	630	RunNo: <b>73605</b>										
Prep Date: 11/24/2020	Analysis [	Date: <b>1</b> 1	1/25/2020	\$	SeqNo: 2594812 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.92	0.024	0.9506	0	96.4	76.3	120							
Toluene	0.98	0.048	0.9506	0.009951	102	78.5	120							
Ethylbenzene	0.99	0.048	0.9506	0	104	78.1	124							
Xylenes, Total	3.0	0.095	2.852	0	104	79.3	125							
Surr: 4-Bromofluorobenzene	0.99		0.9506		104	80	120							

Sample ID: 2011b50-001amsd	SampT	ype: MS	SD.	TestCode: EPA Method 8021B: Volatiles										
Client ID: S1A@4'	Batch	n ID: <b>566</b>	630	F	RunNo: <b>73605</b>									
Prep Date: 11/24/2020	Analysis D	ate: 11	/25/2020	8	SeqNo: 2	594813	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.94	0.024	0.9470	0	98.9	76.3	120	2.18	20					
Toluene	0.99	0.047	0.9470	0.009951	103	78.5	120	1.16	20					
Ethylbenzene	1.0	0.047	0.9470	0	105	78.1	124	0.729	20					
Xylenes, Total	3.0	0.095	2.841	0	105	79.3	125	0.209	20					
Surr: 4-Bromofluorobenzene	0.96		0.9470		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

Page 10 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594832 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID: LCS-56645 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594833 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

#### Qualifiers:

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

- 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 11



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

Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name	e: Talon Artes	sia	Work	Order Numb	per: 201	1B50		RcptNo:	1
Received B	y: Juan Roja	as	11/24/20	20 8:00:00	AM		Gran Eng		
Completed E	Bv: Desiree D	ominguez	11/24/20	20 8:31:24	AM		June 3		
	y: SGC 111						113		
Chain of C	Custody								
1. Is Chain o	of Custody comp	lete?			Yes	<b>✓</b>	No 🗌	Not Present	
2. How was	the sample deliv	rered?			Cou	rier			
Log In									
3. Was an a	ttempt made to d	cool the sample	es?		Yes	<b>V</b>	No 🗌	NA 🗌	
4. Were all s	samples received	at a temperati	ure of >0° C t	o 6.0°C	Yes	<b>✓</b>	No 🗌	NA $\square$	
5. Sample(s	) in proper conta	iner(s)?			Yes	<b>V</b>	No 🗌		
6. Sufficient	sample volume f	or indicated tes	st(s)?		Yes	<b>v</b>	No 🗌		
7. Are sampl	les (except VOA	and ONG) prop	perly preserve	d?	Yes	<b>✓</b>	No 🗌		
8. Was prese	ervative added to	bottles?			Yes		No 🗸	NA 🗌	
9. Received	at least 1 vial wit	h headspace <	1/4" for AQ V	OA?	Yes		No 🗌	NA 🗹	
10. Were any	sample containe	ers received br	oken?		Yes		No 🗸	# of preserved	
	erwork match bo				Yes	<b>V</b>	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
12. Are matric	ces correctly iden	tified on Chain	of Custody?		Yes	<b>✓</b>	No 🗌	Adjusted?	
13. Is it clear v	what analyses we	ere requested?			Yes	<b>V</b>	No 🗌		
	olding times able fy customer for a				Yes	<b>✓</b>	No 🗆	Checked by:	JR 11/24/2
Special Ha	ndling (if app	olicable)							
15. Was clien	nt notified of all d	iscrepancies w	ith this order?		Yes		No 🗌	NA 🗹	
Per	son Notified:			Date:		and control to be desired.	Recent Chipse for desire public control cours."		
	Whom:			Via:	eM	ail 🗌	Phone  Fax	☐ In Person	
	garding:				and a second second		personal for the extension of the constraint of		
Clie	ent Instructions:	The state of the s							
16. Additiona	al remarks:								
17. Cooler II		Condition	Seal Intact	Seal No	Seal D	ate	Signed By		
1	0.3	Good	Jour mitabl	Scarro	Jear D	ato	orgined by		
2	1.1	Good							
3	4.3	Good							

Page 1 of 1

0.4

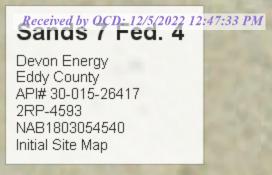
Good

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	POS (OE)	5 PCB's	28/808/2 504.1) 507.28 to ( 52.28 to ( 52.28 to (	oide oide 310 (HO NO	P15FC Pestii Methby 8 8 M 8 M 8 M 8 M 8 M	4PH;80 8081 PPHs PPHs (CI),F,	7								Time: Relinquished by: Received by: Via: Date Time Remarks: Please cc the following via email: Dadkins@talonlpe.com 0.3 ±0 = 0.3 = 0.1 = 0
Turn-Around Time:	□ Standard ☑ Rush	Project Name:	Samples of Leady	Project #:	200294.364.01	Project Manager:	Rebecca Pons	Sampler: 《()//// On Ice: '' 文字s' □ No	olers: H	Cooler Temp(including CF): See Leven (195)	Container Preservative ADI RSO	100001	1	500-	h00-	500-				Received by: Via: Date Time Received by: Via: Date Time Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time
Chain-of-Custody Record	Client: Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #: 575-441-0980	email or Fax#: (575) 746-8905	QA/QC Package:  □ Standard □ Level 4 (Full Validation)	n: ☐ Az Compliance ☐ Other			Time Matrix Sample Name		7	7 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	アンストン レン				Date: Time: Relinquished by:  Date: Time: Relinquished by:  Man 1400 (UMM - Linguished by:



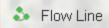
# **APPENDIX I**

## SITE MAPS



BG 2 0 **9**52 **o** S 1 **o** S 3 **c**s 4 **43C** 5 BG 4

Legeria 104 of 192



Sample Point

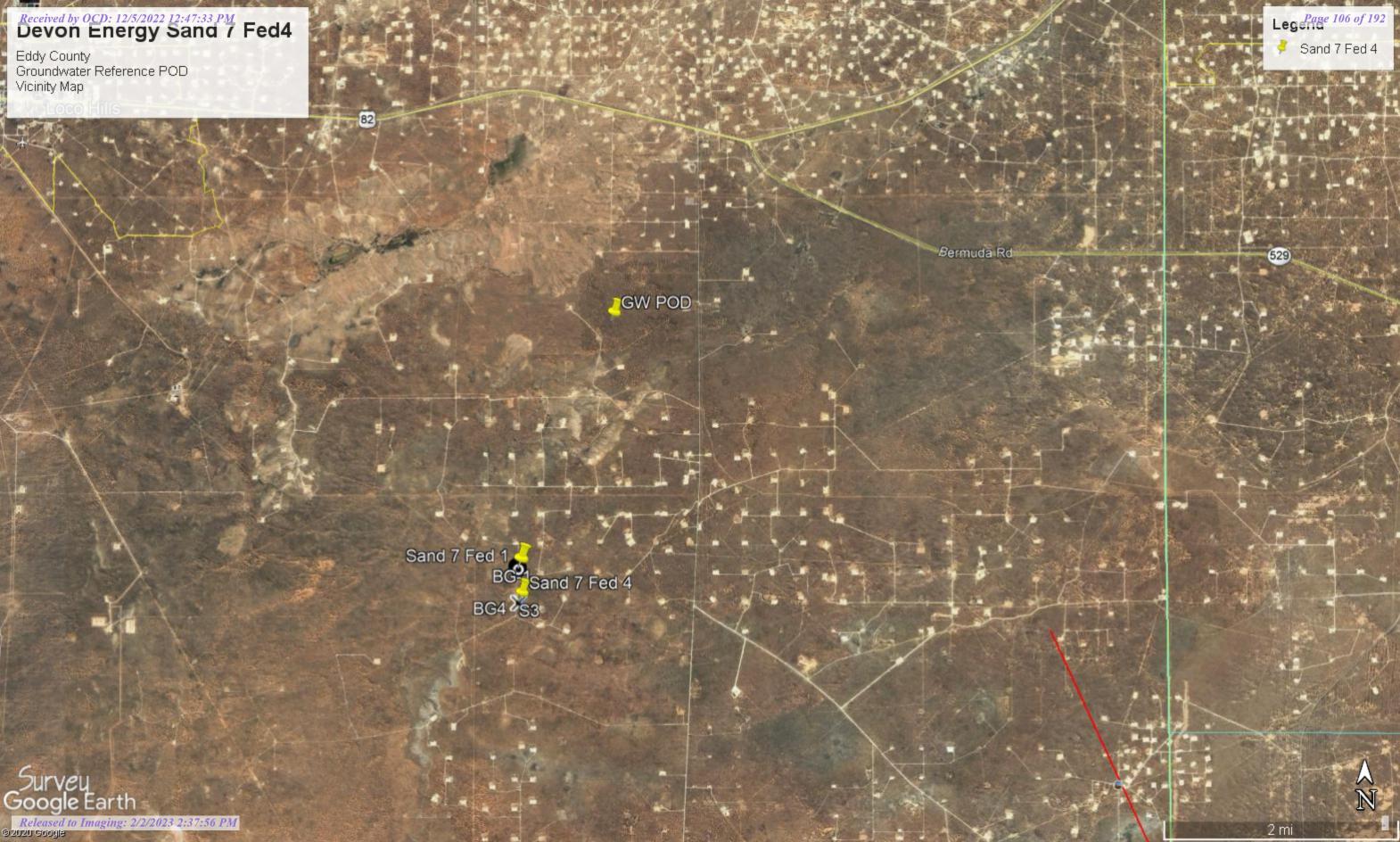
Spill Area

B@ 3 0

Legend 105 of 192 Received by OCD: 12/5/2022 12:47:33 PM Sand / Fed #4 Impact Area Devon Energy Production Corporation Eddy County, NM API# 30-015-26417 2RP-4593 Confirmation Sample Map Sample Point O N.SW S-2A O **o** S-1A PESW-1 w.sw o **e**S-5 S-3A • S-4A • 9 SW-2 o S.SW Google Earth

Released to Imaging: 2/2/2023

92020 Google









# APPENDIX II

# GROUNDWATER DATA



## 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

(R=POD has been

replaced,
O=orphaned,
C=the file is

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

water right file.) closed)

(quarters are smallest to largest) (N

(NAD83 UTM in meters)

(In feet)

=	,				-				-					
		POD												
		Sub-		Q	QQ								Wa	ater
POD Number	Code	basin	County	64	16 4	Sec	Tws	Rng	X	Y	DistanceDep	othWellDepth	Water Col	umn
RA 11590 POD1		RA	ED	2	1 3	32	17S	31E	603315	3628545	3927	158		
RA 11590 POD4		RA	ED	4	1 1	32	17S	31E	603308	3629253	4605	55		
RA 11590 POD3		RA	ED	3	1 2	32	17S	31E	603932	3629260	4811	60		

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 3

Basin/County Search:
County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 602107.72 Northing (Y): 3624807.84 Radius: 5000

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.

9/17/20 11:52 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

Χ

RA 11590 POD1

2 1 3 32 17S 31E

603315 3628545

Driller License: 225

**Driller Company:** 

RODGERS & CO., INC.

**Driller Name:** 

Drill Start Date: 01/20/2010

Drill Finish Date:

01/26/2010

Plug Date:

Log File Date: 0

04/23/2010

PCW Rcv Date:

Sourc

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

158 feet

Depth Water:

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

11/30/20 1:16 PM

POINT OF DIVERSION SUMMARY

## **Eddy Area, New Mexico**

## BP—Berino-Pajarito complex, 0 to 3 percent slopes, eroded

## **Map Unit Setting**

National map unit symbol: 1w45 Elevation: 2,450 to 4,200 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 250 days

Farmland classification: Not prime farmland

## **Map Unit Composition**

Berino and similar soils: 46 percent Pajarito and similar soils: 45 percent Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

## **Description of Berino**

## Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

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

Parent material: Mixed alluvium and/or eolian sands

### Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: sandy loam H3 - 50 to 60 inches: loamy sand

## **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0

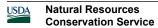
mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 7.3 inches)

### Interpretive groups

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



Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Hydrologic Soil Group: B

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

## **Description of Pajarito**

## Setting

Landform: Dunes, interdunes, plains

Landform position (three-dimensional): Side slope

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

Parent material: Mixed alluvium and/or eolian sands

## Typical profile

H1 - 0 to 9 inches: loamy fine sand H2 - 9 to 36 inches: fine sandy loam H3 - 36 to 72 inches: fine sandy loam

## **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

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

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

## Interpretive groups

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

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

## **Minor Components**

#### **Dune land**

Percent of map unit: 3 percent Hydric soil rating: No

### Wink

Percent of map unit: 3 percent

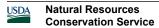
Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

### **Kermit**

Percent of map unit: 3 percent

Ecological site: R042XC005NM - Deep Sand



Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



# **APPENDIX III**

C-141

## Page 116 of 192

## **NM OIL CONSERVATION**

ARTESIA DISTRICT

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

JAN 29 2018

Form C-141 Revised April 3, 2017

District II 811 S. First St., Artesia, NM 88210 **District III** 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

District I 1625 N. French Dr., Hobbs, NM 88240

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

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

Release Notification and Corrective Action												
DAB18						<b>OPERA</b>	ГOR		☑ Initia	l Report	☐ Final	Report
Name of Company Devon Energy Production Company 4/37							sley Ryan-Produ		Foreman			
Address 6488 Seven Rivers Hwy Artesia, NM 88210 Facility Name Sand 7 Federal 4						Telephone Pacility Typ	No. 575-390-543	36				
				T			e on					
Surface Ow	ner Federa	al		Mineral C	wner F	ederal			API No	. 30-015-2	6417	
	_					OF RE	LEASE					
Unit Letter N	Section 07	Township 18S	Range 31E	Feet from the	North/S	South Line	Feet from the	East/V	Vest Line	County	Eddy	
		Latitud	e_ <u>32.756</u>	5244	I	ongitude_	103.909982		NAD8:	3		
				NAT	URE	OF REL			_			
Type of Release	ase Produc	ed Water & Oi	l				Release 6.5 BBL Water & 1 BBL of			ecovered 5 BBL of Oi	BBLS of Prod	luced
Source of Re	lease Stuffi	ng box on We	lhead			Date and H	lour of Occurrence	e	Date and	Hour of Dis	covery	
Was Immedia	ate Notice (	Given?				January 15 If YES, To	, 2018 9:00AM M	1ST	January 1:	5, 2018 9:00	OAM MST	
., .,			Yes [	No Not Re	quired		ily Tucker & OCI	D-Mike	Bratcher, C	rystal Weav	/er	
By Whom? N							lour January 16, 2					
Was a Watercourse Reached?				olume Impacting t	he Wate	ercourse.						
If a Watercou N/A	If a Watercourse was Impacted, Describe Fully.* N/A											
Describe Cause of Problem and Remedial Action Taken.*  Found a stuffing box leak at the location. The well was immediately shut in and a vacuum truck was dispatched to recover any standing fluid.				ng								
Describe Area Affected and Cleanup Action Taken.* 6.5 BBLS of Produce Water & 1 BBL of Oil was released from the stuffing box on the wellhead. A vacuum truck was dispatched and 5 BBLS of Produced Water & 1 BBL of Oil was recovered. The release originated from the stuffing box that is located on the well pad. An area approximately 30'x 30' on well pad was affected by the release. None of the released fluid left well pad. An environmental contractor will be contacted to assist with delineation and remediation efforts.				30'x								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				r ty								
	OIL CONSERVATION DIVISION											
Signature: 1	Signature: Jennifer Reyna											
Printed Name	-	-				Approved by	Envir <del>idamed</del> tals	pecialis	ler Brez	accer_	<del></del>	
Title: Field	•					Approval Da	te: 1 30 1B		Expiration	Date: NIF		
E-mail Addre	ess: Jennif	er.Reyna@dvn	.com		,	Conditions o	· · ·		4	Attached	_	<u>,</u>
Date: 1/18/2018 Phone: 575.746.5588  Attach Additional Sheets If Necessary					588		See a	ttac	ned	<u>L</u> al	42456	19

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/29/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 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 2 office in  $\frac{ARTESIA}{ARTESIA}$  on or before  $\frac{3/1/2018}{2}$ . 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; C<sub>6</sub> thru C<sub>36</sub>), 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; C<sub>6</sub> thru C<sub>36</sub>), 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

## **Bratcher, Mike, EMNRD**

From:

Reyna, Jennifer < Jennifer.Reyna@dvn.com>

Sent:

Monday, January 29, 2018 4:08 PM

To:

Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; 'Shelly Tucker (stucker@blm.gov)'

Cc:

Fulks, Brett; Shoemaker, Mike

Subject:

Sand 7 Fed 4\_6.5 bbls pw & 1 bbl oil\_1.15.18

**Attachments:** 

Sand 7 Fed 4\_6.5 bbls pw & 1 bbl oil\_1.15.18 inital C-141.doc; Sand 7 Fed 4\_6.5 bbls pw

& 1 bbl oil\_1.15.18 GIS Image.pdf

Good Afternoon,

Attached please find the Initial C-141 and GIS Image for the 6.5 bbls of produced water and 1 bbl of oil release at the Sand 7 Federal 4 on 1.15.18.

If you have any questions please feel free to contact me.

Thank you,

Jennifer Reyna

Field Admin Support Production B-Schedule

Devon Energy Corporation P.O. Box 250 Artesia, NM 88211 575 746 5588

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



## **Bratcher, Mike, EMNRD**

From:

Shoemaker, Mike < Mike. Shoemaker@dvn.com>

Sent:

Tuesday, January 16, 2018 6:53 AM

To:

Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)

Cc:

Fulks, Brett

Subject:

Sand 7 Federal 4 (API #30-015-26417)

Good Morning,

Devon had the following release occur at 9:00 AM MST on 01/15/18. The incident is described below.

- 1. Sand 7 Federal 4 (API #30-015-26417)
  - a. Found a stuffing box leak at the location. The well was immediately shut in and a vacuum truck was dispatched to recover any standing fluid. Approximately 7.73 bbls of mixed fluid was released and approximately 6 bbls was recovered.

A C-141 will be prepared and submitted with GPS coordinates of the areas affected.

Thanks,

Mike Shoemaker EHS Representative

## **Devon Energy Corporation**

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

## **Release Notification**

			Res	pons	ible Part	ty			
Responsible	Party: Devo	on Energy			OGRID: 3	328947			
Contact Nan	ne: Tom By	num			Contact Telephone: 580-748-1613				
Contact email: Tom.Bynum@dvn.com					Incident #	# (assigned by OCD): NAB1914957336			
Contact mail	ling address:	PO Box 250 Arto	esia, NM 88211		l				
			Location	n of I	Release S	Source			
Latitude 32.7	56244	Longitud	le <u>-103.909982</u>		_(NAD 83 in de	lecimal degrees to 5 decimal places)			
Site Name: S	and 7 Federa	al 4			Site Type:	: Oil Production			
Date Release	Discovered	: 01/15/2018			API# (if app	pplicable) 30-015-26417			
Unit Letter	Section	Township	Range		Cour	ınty			
N	07	18S	31E	Edd	ly				
	Materia	ıl(s) Released (Select a	Nature an			Release ic justification for the volumes provided below)			
Crude Oi		Volume Release			•	Volume Recovered (bbls)			
Produced	Water	Volume Release	ed (bbls) 6.5 bbl			Volume Recovered (bbls) 5			
		Is the concentra	tion of dissolved >10,000 mg/l?	chlorid	le in the	☐ Yes ☒ No			
Condensa	ate	Volume Releas	ed (bbls)			Volume Recovered (bbls)			
Natural C	as	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)			
Other (de	escribe)	Volume/Weigh	t Released (provi	de units	s)	Volume/Weight Recovered (provide units)			
	box develop					cuum truck was dispatched to recover any standing and the selease exited the well pad area			

Received by OCD: 12/5/2022 12:47:33 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page	<i>123</i>	of	<u> 192</u>

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES was immediate notic	ce given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
1 1 22, 1 40 111111001410 11041	cog., on to ano elegations, constitutions and estimate of many questions, constitutions and elegations, constitutions and elegations and elegations and elegations and elegations are constitutions and elegations and elegations are constitutions are constitutions and elegations are constitutions are constitutions and elegations are constitutions are constitutional architecture and constitutions are constitutions are constitutions are constitutional architecture architecture architecture architecture architecture architecture architecture architectur
	Initial Response
The responsible par	rty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the release	se has been stopped.
The impacted area has b	been secured to protect human health and the environment.
Released materials have	e been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and reco	overable materials have been removed and managed appropriately.
If all the actions described a	above have not been undertaken, explain why:
has begun, please attach a r	C the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	ation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environmen	quired to report and/or file certain release notifications and perform corrective actions for releases which may endanger nt. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	e and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Rebecca	a Pons Title: Project Manager
Signature:	Date: <u>12/3/2020</u>
email: Rpons@talon	<u>Telephone: 575-441-0980</u>
OCD Only	
Received by:	Date:

New Mexico

| Page 124 of 192 | NAP1802054540 |

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
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?	158(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 <b>not</b> 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> </ul>	ls.

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

☐ Laboratory data including chain of custody

Received by OCD: 12/5/2022 12:47:33 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 125 of 192

	1 1180 120 0) 1.
Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

State of New Mexico

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.									
<ul> <li>☑ Detailed description of proposed remediation technique</li> <li>☑ Scaled sitemap with GPS coordinates showing delineation points</li> <li>☑ Estimated volume of material to be remediated</li> <li>☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>									
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.									
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.									
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human health, the environment, or groundwater.									
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name: Rebecca Pons Title: Project Manager									
Signature: Date: _10/26?2020									
email: Rpons@talonlpe.com Telephone: 575-441-0980									
OCD Only									
Received by: Date:									
Approved									
Signature: Date:									

Page 127 of 192

Incident ID	NAB1803054540
District RP	2RP-4593
Facility ID	30-015-26417
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.
	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 certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman 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
Printed Name: Tom Bynum	Title: EHS Consultant
Signature: Tom Bynum	Date: 12/3/2020
Signature:	Telephone: <u>575-748-2663</u>
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:	Date:
Printed Name:	Title:



# APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION

## **Devon Energy Sand 7 Federal 4**

## PHOTO DOCUMENTATION



**Excavation West** 



N Sidewall



Completion looking East



**Excavation South** 





Completion looking North



# APPENDIX V

# 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 28, 2020

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

RE: Sands 7 Fed 4 Sand 4 OrderNo.: 2009B68

### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 21 sample(s) on 9/19/2020 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:00:00 AM

 Lab ID:
 2009B68-001
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 12:26:51 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/22/2020 7:11:03 PM	55318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 7:11:03 PM	55318
Surr: DNOP	107	30.4-154	%Rec	1	9/22/2020 7:11:03 PM	55318
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Surr: BFB	87.9	75.3-105	%Rec	1	9/23/2020 6:52:59 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Toluene	ND	0.048	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Xylenes, Total	ND	0.095	mg/Kg	1	9/23/2020 6:52:59 PM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/23/2020 6:52:59 PM	55309

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

Qualifiers:

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

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

Page 1 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:05:00 AM

 Lab ID:
 2009B68-002
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 9/25/2020 1:04:04 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.6 mg/Kg 9/22/2020 7:21:06 PM 55318 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/22/2020 7:21:06 PM 55318 Surr: DNOP 55318 109 30.4-154 %Rec 9/22/2020 7:21:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 9/23/2020 7:16:23 PM Gasoline Range Organics (GRO) ND 55309 4.8 mg/Kg 1 Surr: BFB 85.3 75.3-105 %Rec 9/23/2020 7:16:23 PM 55309 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 9/23/2020 7:16:23 PM Benzene 0.024 mg/Kg 55309 Toluene ND 0.048 mg/Kg 9/23/2020 7:16:23 PM 55309 Ethylbenzene ND 0.048 mg/Kg 1 9/23/2020 7:16:23 PM 55309 Xylenes, Total ND 0.096 mg/Kg 9/23/2020 7:16:23 PM 55309 Surr: 4-Bromofluorobenzene 98.8 80-120 %Rec 9/23/2020 7:16:23 PM 55309

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 2 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:10:00 AM

 Lab ID:
 2009B68-003
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 9/25/2020 2:06:05 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.5 mg/Kg 9/22/2020 8:01:13 PM Motor Oil Range Organics (MRO) ND 55322 48 mg/Kg 1 9/22/2020 8:01:13 PM Surr: DNOP 9/22/2020 8:01:13 PM 55322 104 30.4-154 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 9/23/2020 7:39:48 PM Gasoline Range Organics (GRO) ND 55309 4.9 mg/Kg 1 Surr: BFB 90.5 75.3-105 %Rec 9/23/2020 7:39:48 PM 55309 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 9/23/2020 7:39:48 PM Benzene 0.024 mg/Kg 55309 Toluene ND 0.049 mg/Kg 9/23/2020 7:39:48 PM 55309 Ethylbenzene ND 0.049 mg/Kg 1 9/23/2020 7:39:48 PM 55309 Xylenes, Total ND 0.098 mg/Kg 9/23/2020 7:39:48 PM 55309 Surr: 4-Bromofluorobenzene 103 80-120 %Rec 9/23/2020 7:39:48 PM 55309

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

Qualifiers:

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

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

Page 3 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:15:00 AM

 Lab ID:
 2009B68-004
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 2:18:30 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/22/2020 8:31:10 PM	55322
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 8:31:10 PM	55322
Surr: DNOP	90.3	30.4-154	%Rec	1	9/22/2020 8:31:10 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/23/2020 8:03:26 PM	55309
Surr: BFB	88.8	75.3-105	%Rec	1	9/23/2020 8:03:26 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 8:03:26 PM	55309
Toluene	ND	0.049	mg/Kg	1	9/23/2020 8:03:26 PM	55309
Ethylbenzene	ND	0.049	mg/Kg	1	9/23/2020 8:03:26 PM	55309
Xylenes, Total	ND	0.098	mg/Kg	1	9/23/2020 8:03:26 PM	55309
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	9/23/2020 8:03:26 PM	55309

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 4 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:20:00 AM

 Lab ID:
 2009B68-005
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	220	60	mg/Kg	20	9/25/2020 2:30:54 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: BRM
Diesel Range Organics (DRO)	340	9.6	mg/Kg	1	9/23/2020 3:23:31 PM	55322
Motor Oil Range Organics (MRO)	370	48	mg/Kg	1	9/23/2020 3:23:31 PM	55322
Surr: DNOP	98.1	30.4-154	%Rec	1	9/23/2020 3:23:31 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 8:26:49 PM	55309
Surr: BFB	88.3	75.3-105	%Rec	1	9/23/2020 8:26:49 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 8:26:49 PM	55309
Toluene	ND	0.048	mg/Kg	1	9/23/2020 8:26:49 PM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 8:26:49 PM	55309
Xylenes, Total	ND	0.096	mg/Kg	1	9/23/2020 8:26:49 PM	55309
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	9/23/2020 8:26:49 PM	55309

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

Qualifiers:

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

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

Page 5 of 29

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2009B68

Date Reported: 9/28/2020

9/23/2020 8:50:20 PM

55309

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:25:00 AM

 Lab ID:
 2009B68-006
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 240 60 mg/Kg 20 9/25/2020 2:43:18 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 27 9.3 mg/Kg 9/22/2020 8:51:15 PM Motor Oil Range Organics (MRO) ND 55322 47 mg/Kg 1 9/22/2020 8:51:15 PM Surr: DNOP 9/22/2020 8:51:15 PM 55322 113 30.4-154 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 9/23/2020 8:50:20 PM Gasoline Range Organics (GRO) ND 55309 4.9 mg/Kg 1 Surr: BFB 90.8 75.3-105 %Rec 9/23/2020 8:50:20 PM 55309 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 9/23/2020 8:50:20 PM Benzene 0.025 mg/Kg 55309 Toluene ND 0.049 mg/Kg 9/23/2020 8:50:20 PM 55309 Ethylbenzene ND 0.049 mg/Kg 1 9/23/2020 8:50:20 PM 55309 Xylenes, Total ND 0.099 mg/Kg 9/23/2020 8:50:20 PM 55309

102

80-120

%Rec

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 6 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:30:00 AM

 Lab ID:
 2009B68-007
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	240	60	mg/Kg	20	9/25/2020 2:55:43 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/22/2020 9:01:13 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 9:01:13 PM	55322
Surr: DNOP	139	30.4-154	%Rec	1	9/22/2020 9:01:13 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Surr: BFB	89.8	75.3-105	%Rec	1	9/23/2020 9:13:55 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Toluene	ND	0.046	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Ethylbenzene	ND	0.046	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Xylenes, Total	ND	0.093	mg/Kg	1	9/23/2020 9:13:55 PM	55309
Surr: 4-Bromofluorobenzene	99.7	80-120	%Rec	1	9/23/2020 9:13:55 PM	55309

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

Qualifiers:

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

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

Page 7 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:35:00 AM

 Lab ID:
 2009B68-008
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	280	59	mg/Kg	20	9/25/2020 3:08:07 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/22/2020 9:11:17 PM	55322
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/22/2020 9:11:17 PM	55322
Surr: DNOP	125	30.4-154	%Rec	1	9/22/2020 9:11:17 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Surr: BFB	88.1	75.3-105	%Rec	1	9/23/2020 9:37:16 PM	55309
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Toluene	ND	0.047	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Ethylbenzene	ND	0.047	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Xylenes, Total	ND	0.093	mg/Kg	1	9/23/2020 9:37:16 PM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/23/2020 9:37:16 PM	55309

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 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:40:00 AM

 Lab ID:
 2009B68-009
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	170	60		mg/Kg	20	9/25/2020 3:20:31 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	5900	490		mg/Kg	50	9/22/2020 9:21:22 PM	55322
Motor Oil Range Organics (MRO)	4600	2400		mg/Kg	50	9/22/2020 9:21:22 PM	55322
Surr: DNOP	0	30.4-154	S	%Rec	50	9/22/2020 9:21:22 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Surr: BFB	94.3	75.3-105	D	%Rec	5	9/23/2020 11:10:59 PM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Toluene	ND	0.25	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Ethylbenzene	ND	0.25	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Xylenes, Total	ND	0.49	D	mg/Kg	5	9/23/2020 11:10:59 PM	55309
Surr: 4-Bromofluorobenzene	99.7	80-120	D	%Rec	5	9/23/2020 11:10:59 PM	55309

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 9 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:45:00 AM

 Lab ID:
 2009B68-010
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	60	mg/Kg	20	9/25/2020 3:32:56 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/22/2020 9:31:21 PM	55322
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 9:31:21 PM	55322
Surr: DNOP	107	30.4-154	%Rec	1	9/22/2020 9:31:21 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Surr: BFB	87.5	75.3-105	%Rec	1	9/23/2020 11:58:14 PM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Toluene	ND	0.048	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Xylenes, Total	ND	0.097	mg/Kg	1	9/23/2020 11:58:14 PM	55309
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	9/23/2020 11:58:14 PM	55309

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

Qualifiers:

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

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

Page 10 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:50:00 AM

 Lab ID:
 2009B68-011
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 3:45:20 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/22/2020 9:41:28 PM	55322
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/22/2020 9:41:28 PM	55322
Surr: DNOP	99.6	30.4-154	%Rec	1	9/22/2020 9:41:28 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Surr: BFB	86.3	75.3-105	%Rec	1	9/24/2020 12:21:48 AM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Toluene	ND	0.046	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Ethylbenzene	ND	0.046	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Xylenes, Total	ND	0.091	mg/Kg	1	9/24/2020 12:21:48 AM	55309
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	9/24/2020 12:21:48 AM	55309

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 11 of 29

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2009B68

Date Reported: 9/28/2020

9/24/2020 12:45:17 AM 55309

9/24/2020 12:45:17 AM 55309

9/24/2020 12:45:17 AM 55309

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S3 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 9:55:00 AM

 Lab ID:
 2009B68-012
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 66 59 mg/Kg 20 9/25/2020 3:57:45 PM 55448 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 11 9.1 mg/Kg 9/22/2020 9:51:35 PM Motor Oil Range Organics (MRO) ND 55322 46 mg/Kg 1 9/22/2020 9:51:35 PM Surr: DNOP 55322 105 30.4-154 %Rec 9/22/2020 9:51:35 PM Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** Gasoline Range Organics (GRO) ND 9/24/2020 12:45:17 AM 55309 4.8 mg/Kg Surr: BFB 87.0 75.3-105 %Rec 9/24/2020 12:45:17 AM 55309 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 9/24/2020 12:45:17 AM 55309 Benzene 0.024 mg/Kg Toluene ND 0.048 mg/Kg 9/24/2020 12:45:17 AM 55309

ND

ND

96.6

0.048

0.095

80-120

mg/Kg

mg/Kg

%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 12 of 29

Date Reported: 9/28/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:00:00 AM

 Lab ID:
 2009B68-013
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	9/25/2020 4:34:58 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	290	9.9		mg/Kg	1	9/23/2020 4:11:17 PM	55322
Motor Oil Range Organics (MRO)	400	50		mg/Kg	1	9/23/2020 4:11:17 PM	55322
Surr: DNOP	109	30.4-154		%Rec	1	9/23/2020 4:11:17 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Surr: BFB	91.8	75.3-105	D	%Rec	5	9/24/2020 1:08:43 AM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Toluene	ND	0.24	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Ethylbenzene	ND	0.24	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Xylenes, Total	ND	0.47	D	mg/Kg	5	9/24/2020 1:08:43 AM	55309
Surr: 4-Bromofluorobenzene	98.5	80-120	D	%Rec	5	9/24/2020 1:08:43 AM	55309

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

Qualifiers:

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

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

Page 13 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 2'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:05:00 AM

 Lab ID:
 2009B68-014
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 4:47:22 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	9/22/2020 10:12:07 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 10:12:07 PM	55322
Surr: DNOP	99.5	30.4-154	%Rec	1	9/22/2020 10:12:07 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Surr: BFB	86.2	75.3-105	%Rec	1	9/24/2020 1:32:05 AM	55309
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Toluene	ND	0.048	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 1:32:05 AM	55309
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	9/24/2020 1:32:05 AM	55309

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

Qualifiers:

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

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

Page 14 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 3'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:10:00 AM

 Lab ID:
 2009B68-015
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 4:59:46 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/22/2020 10:22:17 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 10:22:17 PM	55322
Surr: DNOP	97.7	30.4-154	%Rec	1	9/22/2020 10:22:17 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Surr: BFB	85.3	75.3-105	%Rec	1	9/24/2020 1:55:26 AM	55309
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Toluene	ND	0.046	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Ethylbenzene	ND	0.046	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Xylenes, Total	ND	0.092	mg/Kg	1	9/24/2020 1:55:26 AM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/24/2020 1:55:26 AM	55309

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

Qualifiers:

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

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

Page 15 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4 4'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:15:00 AM

 Lab ID:
 2009B68-016
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 5:12:11 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	9/22/2020 10:32:31 PM	55322
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/22/2020 10:32:31 PM	55322
Surr: DNOP	95.1	30.4-154	%Rec	1	9/22/2020 10:32:31 PM	55322
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Surr: BFB	90.4	75.3-105	%Rec	1	9/24/2020 2:18:43 AM	55309
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Toluene	ND	0.048	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 2:18:43 AM	55309
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	9/24/2020 2:18:43 AM	55309

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 16 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG1 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:30:00 AM

 Lab ID:
 2009B68-017
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	200	60		mg/Kg	20	9/25/2020 5:24:35 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	130	9.9		mg/Kg	1	9/23/2020 4:59:00 PM	55322
Motor Oil Range Organics (MRO)	380	49		mg/Kg	1	9/23/2020 4:59:00 PM	55322
Surr: DNOP	115	30.4-154		%Rec	1	9/23/2020 4:59:00 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Surr: BFB	85.5	75.3-105	D	%Rec	5	9/24/2020 2:42:05 AM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Toluene	ND	0.24	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Ethylbenzene	ND	0.24	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Xylenes, Total	ND	0.48	D	mg/Kg	5	9/24/2020 2:42:05 AM	55309
Surr: 4-Bromofluorobenzene	99.1	80-120	D	%Rec	5	9/24/2020 2:42:05 AM	55309

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

Qualifiers:

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

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

Page 17 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG2 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:35:00 AM

 Lab ID:
 2009B68-018
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	9/25/2020 5:37:00 PM	55448
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	9/24/2020 12:08:47 PM	55322
Motor Oil Range Organics (MRO)	53	49		mg/Kg	1	9/24/2020 12:08:47 PM	55322
Surr: DNOP	92.4	30.4-154		%Rec	1	9/24/2020 12:08:47 PM	55322
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Surr: BFB	89.7	75.3-105	D	%Rec	5	9/24/2020 3:05:33 AM	55309
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Toluene	ND	0.23	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Ethylbenzene	ND	0.23	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Xylenes, Total	ND	0.46	D	mg/Kg	5	9/24/2020 3:05:33 AM	55309
Surr: 4-Bromofluorobenzene	99.8	80-120	D	%Rec	5	9/24/2020 3:05:33 AM	55309

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

Qualifiers:

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

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

Page 18 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG3 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:40:00 AM

 Lab ID:
 2009B68-019
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	270	59		mg/Kg	20	9/25/2020 5:49:25 PM	55448
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	ND	9.5		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Surr: BFB	106	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	7800	490		mg/Kg	50	9/22/2020 11:03:06 PM	55322
Motor Oil Range Organics (MRO)	8200	2400		mg/Kg	50	9/22/2020 11:03:06 PM	55322
Surr: DNOP	0	30.4-154	S	%Rec	50	9/22/2020 11:03:06 PM	55322
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst	JMR
Benzene	ND	0.047		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Toluene	ND	0.095		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Ethylbenzene	ND	0.095		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Xylenes, Total	ND	0.19		mg/Kg	2	9/23/2020 10:44:40 PM	55319
Surr: 1,2-Dichloroethane-d4	85.3	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
Surr: 4-Bromofluorobenzene	76.0	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
Surr: Dibromofluoromethane	104	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319
Surr: Toluene-d8	96.9	70-130		%Rec	2	9/23/2020 10:44:40 PM	55319

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

Qualifiers:

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

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

Page 19 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG4 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:45:00 AM

 Lab ID:
 2009B68-020
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	550	60	mg/Kg	20	9/25/2020 6:01:49 PM	55448
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Surr: BFB	103	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	130	10	mg/Kg	1	9/23/2020 5:47:03 PM	55322
Motor Oil Range Organics (MRO)	410	50	mg/Kg	1	9/23/2020 5:47:03 PM	55322
Surr: DNOP	94.2	30.4-154	%Rec	1	9/23/2020 5:47:03 PM	55322
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Toluene	ND	0.048	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 12:10:07 AM	55319
Surr: 1,2-Dichloroethane-d4	90.4	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
Surr: Dibromofluoromethane	104	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319
Surr: Toluene-d8	95.4	70-130	%Rec	1	9/24/2020 12:10:07 AM	55319

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

Qualifiers:

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

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

Page 20 of 29

Date Reported: 9/28/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: BG5 0-1'

 Project:
 Sands 7 Fed 4 Sand 4
 Collection Date: 9/18/2020 10:50:00 AM

 Lab ID:
 2009B68-021
 Matrix: SOIL
 Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/25/2020 9:32:46 PM	55453
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Surr: BFB	101	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	10	9.3	mg/Kg	1	9/23/2020 6:35:06 PM	55322
Motor Oil Range Organics (MRO)	59	47	mg/Kg	1	9/23/2020 6:35:06 PM	55322
Surr: DNOP	105	30.4-154	%Rec	1	9/23/2020 6:35:06 PM	55322
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Toluene	ND	0.048	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Ethylbenzene	ND	0.048	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Xylenes, Total	ND	0.097	mg/Kg	1	9/24/2020 3:29:51 AM	55319
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319
Surr: Toluene-d8	96.2	70-130	%Rec	1	9/24/2020 3:29:51 AM	55319

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 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68 28-Sep-20** 

Client: Talon Artesia

**Project:** Sands 7 Fed 4 Sand 4

Sample ID: MB-55448 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55448 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530604 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-55448 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55448 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530605 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-55453 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55453 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530640 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-55453 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55453 RunNo: 72181

Prep Date: 9/25/2020 Analysis Date: 9/25/2020 SeqNo: 2530641 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.9 90 110

#### Qualifiers:

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

- 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 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: 2009B68-003AMS	SampT	ype: MS	;	Tes	8015M/D: Die	esel Range	e Organics			
Client ID: S1 3'	Batch	n ID: <b>55</b> 3	322	F	RunNo: 7	2063				
Prep Date: 9/21/2020	Analysis D	ate: <b>9/</b> 2	22/2020	\$	SeqNo: 2	524637	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.6	48.03	3.370	94.3	15	184			
Surr: DNOP	4.4		4.803		92.3	30.4	154			
Sample ID: 2009B68-003AMSI	<b>D</b> SampT	O SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics								

Client ID: S1 3'	Batch	ID: <b>55</b> 3	322	R	tunNo: 7	2063					
Prep Date: 9/21/2020	Analysis D	ate: <b>9/</b> 2	22/2020	S	SeqNo: 2	524638	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	9.9	49.60	3.370	91.5	15	184	0.215	23.9		
Surr: DNOP	4.6		4.960		93.4	30.4	154	0	0		

Sample ID: LCS-55297 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 55297 RunNo: 72063 Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524681 Units: %Rec SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: DNOP 7.7 5.000 154 30.4 154

Sample ID: LCS-55318	Sample ID: LCS-55318 SampType: LCS						TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS													
Prep Date: 9/21/2020 Analysis Date: 9/22/2020				S	SeqNo: 2524682 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	60	10	50.00	0	119	70	130						
Surr: DNOP	3.7		5.000		74.6	30.4	154						

Sample ID: LCS-55322	SampT	ype: LC	S	Tes	Code: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	h ID: <b>55</b>	322	F	RunNo: <b>7</b>	2063				
Prep Date: 9/21/2020	Analysis D	Date: 9/	22/2020	9	SeqNo: 2	524684	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.8	70	130			
Surr: DNOP	4.0		5.000		80.5	30.4	154			

Sample ID: LCS-55325	SampType: <b>LCS</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55325	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/23/2020	SeqNo: <b>2524685</b>	Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual						
Surr: DNOP	4.6 5.000	92.7 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 23 of 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: MB-55297 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **55297** RunNo: **72063** 

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524686 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 13 10.00 127 30.4 154

Sample ID: MB-55318 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 55318 RunNo: 72063

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524687 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 7.2 10.00 72.3 30.4 154

Sample ID: MB-55322 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **55322** RunNo: **72063** 

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524688 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 86.2 30.4 154 86

Sample ID: MB-55325 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 55325 RunNo: 72063

Prep Date: 9/21/2020 Analysis Date: 9/22/2020 SeqNo: 2524689 Units: %Rec

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Surr: DNOP 9.1 10.00 90.9 30.4 154

Sample ID: LCS-55398 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 55398 RunNo: 72109

Prep Date: 9/23/2020 Analysis Date: 9/24/2020 SeqNo: 2527717 Units: %Rec

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

 Surr: DNOP
 5.3
 5.000
 106
 30.4
 154

Sample ID: MB-55398 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 55398 RunNo: 72109

Prep Date: 9/23/2020 Analysis Date: 9/24/2020 SeqNo: 2527718 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 11 10.00 111 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 24 of 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68 28-Sep-20** 

Client: Talon Artesia

**Project:** Sands 7 Fed 4 Sand 4

Sample ID: mb-55309 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 55309 RunNo: 72074

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525630 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 88.8 75.3 105

Sample ID: Ics-55309 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 55309 RunNo: 72074

970

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525632 Units: mg/Kg

1000

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 21 5.0 25.00 0 84.7 72.5 106

97.0

75.3

105

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of 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 25 of 29

### Hall Environmental Analysis Laboratory, Inc.

Sands 7 Fed 4 Sand 4

WO#: **2009B68 28-Sep-20** 

**Client:** Talon Artesia

**Project:** 

Sample ID: mb-55309 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 55309 RunNo: 72074

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525658 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: LCS-55309 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 55309 RunNo: 72074

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2525659 Units: mg/Kg

%RPD RPDLimit	Qual
<u>%</u>	RPD RPDLimit

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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 26 of 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68 28-Sep-20** 

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: Ics-55319	sample ID: Ics-55319 SampType: LCS4				TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC Batch ID: 55319			319	RunNo: <b>72117</b>							
Prep Date: 9/21/2020	Analysis Date: 9/23/2020			S	SeqNo: 2	527379	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.025	1.000	0	99.2	80	120				
Toluene	1.0	0.050	1.000	0	104	80	120				
Ethylbenzene	1.0	0.050	1.000	0	103	80	120				
Xylenes, Total	3.2	0.10	3.000	0	106	80	120				
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.9	70	130				
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130				
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130				
Surr: Toluene-d8	0.48		0.5000		95.2	70	130				

Sample ID: mb-55319	Sampl	уре: МЕ	BLK	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch ID: 55319			F	RunNo: <b>7</b>						
Prep Date: 9/21/2020	Analysis Date: 9/23/2020			9	527380	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.8	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130				
Surr: Toluene-d8	0.48		0.5000		95.8	70	130				

Sample ID: 2009B68-020AMS	SampT	ype: MS	64	Test	tCode: <b>EF</b>	PA Method	8260B: Volat	iles Short	List			
Client ID: BG4 0-1'	Batch	n ID: <b>55</b> 3	319	R	RunNo: <b>7</b> 2							
Prep Date: 9/21/2020	Prep Date: 9/21/2020 Analysis Date: 9/24/2020			SeqNo: <b>2527383</b> U			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.89	0.024	0.9461	0	94.2	71.1	115			•		
Toluene	0.93	0.047	0.9461	0	98.8	79.6	132					
Ethylbenzene	0.94	0.047	0.9461	0	99.3	83.8	134					
Xylenes, Total	3.0	0.095	2.838	0	105	82.4	132					
Surr: 1,2-Dichloroethane-d4	0.42		0.4730		88.7	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.4730		99.8	70	130					
Surr: Dibromofluoromethane	0.50		0.4730		105	70	130					
Surr: Toluene-d8	0.45		0.4730		94.5	70	130					

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- 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 27 of 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B68** 

28-Sep-20

Client: Talon Artesia
Project: Sands 7 Fed 4 Sand 4

Sample ID: 2009B68-020AM	ISD SampT	Гуре: МS	SD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BG4 0-1'	Batcl	h ID: <b>55</b> 3	319	F	RunNo: <b>7</b> 2	2117						
Prep Date: 9/21/2020	Analysis D	Date: <b>9/</b> 2	24/2020	5	SeqNo: 2	527384	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.86	0.024	0.9747	0	88.7	71.1	115	2.98	20			
Toluene	0.98	0.049	0.9747	0	101	79.6	132	5.10	20			
Ethylbenzene	1.0	0.049	0.9747	0	104	83.8	134	7.19	20			
Xylenes, Total	3.1	0.097	2.924	0	105	82.4	132	2.98	20			
Surr: 1,2-Dichloroethane-d4	0.43		0.4873		88.4	70	130	0	0			
Surr: 4-Bromofluorobenzene	0.48		0.4873		99.3	70	130	0	0			
Surr: Dibromofluoromethane	0.50		0.4873		102	70	130	0	0			
Surr: Toluene-d8	0.47		0.4873		95.7	70	130	0	0			

#### Qualifiers:

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

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

Page 28 of 29

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B68

28-Sep-20

**Client:** Talon Artesia **Project:** Sands 7 Fed 4 Sand 4

Sample ID: Ics-55319 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 55319 RunNo: 72117 Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527412 Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual 25.00 Gasoline Range Organics (GRO) 22 5.0 Λ 89.0 70 130 Surr: BFB 530 500.0 106 70 130

Sample ID: mb-55319 TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MBLK Client ID: PBS Batch ID: 55319 RunNo: 72117

510

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527413 Units: mg/Kg

500.0

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

103

70

130

Sample ID: 2009B68-019AMS SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: BG3 0-1' Batch ID: 55319 RunNo: 72117 Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527415 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual

Gasoline Range Organics (GRO) 19 9.5 23.79 0 78.4 49.2 122 Surr: BFB 70 951.5 1000 106 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: 2009B68-019AMSD SampType: MSD

Client ID: BG3 0-1' Batch ID: 55319 RunNo: 72117

Prep Date: 9/21/2020 Analysis Date: 9/23/2020 SeqNo: 2527416 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 22 91.4 49.2 122 9.7 24.37 17.7 20 Surr: BFB 1000 974.7 104 70 130 0 0

#### Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 29 of 29



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

### Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: Talon Artesia Work Order Number: 2009B68 RcptNo: 1 Harring. Received By: 9/19/2020 7:30:00 AM Juan Rojas Completed By: Juan Rojas 9/19/2020 9:06:40 AM Reviewed By: JR 9/19/70 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No \_ Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA  $\square$ No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 8. Was preservative added to bottles? No 🗸 NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA 🗸 Yes Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 11. Does paperwork match bottle labels? Yes 🗸 (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 Checked by: M 4/19/W 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? NA 🗸 Yes No Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By

Good

			www.hallenvironmental.com	₹	505-345-39/5 Fax 505-345-4107		OS S	' <sup>†</sup> Oc		10 3, 1, 1, 1,	d 5 10 10 10 10 10 10 10	etho Met T, M (AC	(Ma 8 A 8 B (V)	SCE SCE SCE STOR	8 8 8														ihe	Rpons@talonlpe.com	W/0# 20840635	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be closely noticed as
			7007	100 F	1 <b>el.</b> 5		ОЯІ	N/C	'AMT V DRG 1 S80	0	GE	12D(	108	:HdJ	L ×		+	-					-						Remarks: Dadkins	Rpons@		nesibility. Any
Turn-Around Time: 4-0a-y	M-Standard □ Rush	9	(Sand 4)	Project #: 706794 .364.01		Project Manager: R. Pans			Rox Bell	平 Yes		Cooler Templinduding on: 7 4-6 (= 2 3	TV L	# Type Type Type	Tra/6001 - 10101		300	-003	700	700	/061	2 1	100/	80001				210	111 MA 9 9/8/20 1820		Jan 1812 9 1812 2130	
44	Cilent: Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #:	email or Fax#: (575) 746-8905	QA/QC Package;	☐ Standard ☐ Level 4 (Full Validation)	Accreditation: D Az Compliance		L EUU (1ype)			Date Time Matrix Sample Name	8/8/20 9:00 soil 51 0-11	9:05 / 81 2		5 0	2	4.20 5.7 0-1	9:25   52 2	9:30 53	4:35 ( 53 41	19:40 53 0-11	9:45 53 2	9:50 / 53 31	2	Relinquished by:	18 m 133 Son	Time:	Mills (MO) (ilmina)	If necessary, samples submitted to Hall Environmental may be subcontracted to other

Released to Imaging: 2/2/2023 2:37:56 PM



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

November 30, 2020

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

RE: Sand 7 Fed 4 OrderNo.: 2011B50

#### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/24/2020 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1A@4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:30:00 PM

 Lab ID:
 2011B50-001
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	ND	60	mg/Kg	20	11/25/2020 8:51:05 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/25/2020 7:53:20 PM	56634
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/25/2020 7:53:20 PM	56634
Surr: DNOP	118	30.4-154	%Rec	1	11/25/2020 7:53:20 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 11:53:47 AM	A 56630
Surr: BFB	91.1	75.3-105	%Rec	1	11/25/2020 11:53:47 AM	<i>I</i> 56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 11:53:47 AM	A 56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM	A 56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM	A 56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 11:53:47 AM	A 56630
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/25/2020 11:53:47 AM	<i>I</i> 56630

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

Qualifiers:

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

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

Page 1 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:40:00 PM

 Lab ID:
 2011B50-002
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	220	60	mg/Kg	20	11/25/2020 9:28:19 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Surr: DNOP	134	30.4-154	%Rec	1	11/25/2020 9:03:32 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: BFB	88.7	75.3-105	%Rec	1	11/25/2020 1:04:12 PM	56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	11/25/2020 1:04:12 PM	56630

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

Qualifiers:

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

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

Page 2 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:43:00 PM

 Lab ID:
 2011B50-003
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	250	60	mg/Kg	20	11/25/2020 9:40:44 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Surr: DNOP	101	30.4-154	%Rec	1	11/25/2020 9:26:51 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: BFB	89.2	75.3-105	%Rec	1	11/25/2020 1:27:46 PM	56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Toluene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Ethylbenzene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Xylenes, Total	ND	0.10	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	11/25/2020 1:27:46 PM	56630

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 3 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S5A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:00:00 PM

 Lab ID:
 2011B50-004
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	170	60	mg/Kg	20	11/25/2020 9:53:08 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Surr: DNOP	93.7	30.4-154	%Rec	1	11/25/2020 9:50:11 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: BFB	88.8	75.3-105	%Rec	1	11/25/2020 1:51:23 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Toluene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Ethylbenzene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Xylenes, Total	ND	0.097	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	11/25/2020 1:51:23 PM	56630

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

Qualifiers:

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

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

Page 4 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: WSW-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:45:00 PM

 Lab ID:
 2011B50-005
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>VP</b>
Chloride	120	60	mg/Kg	20	11/25/2020 10:05:33 PM 56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Surr: DNOP	117	30.4-154	%Rec	1	11/25/2020 10:13:30 PM 56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: BFB	88.2	75.3-105	%Rec	1	11/25/2020 2:14:59 PM 56630
EPA METHOD 8021B: VOLATILES					Analyst: <b>NSB</b>
Benzene	ND	0.023	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Toluene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Ethylbenzene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Xylenes, Total	ND	0.094	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	11/25/2020 2:14:59 PM 56630

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 5 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: MB-56664 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **56664** RunNo: **73610** 

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594675 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-56664 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56664 RunNo: 73610

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594676 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: MB-56641 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 56641 RunNo: 73632

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594887 Units: %Rec

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

Surr: DNOP 9.4 10.00 94.2 30.4 154

Sample ID: MB-56634 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 56634 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594888 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual

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

Surr: DNOP 11 10.00 108 30.4 154

Sample ID: LCS-56634 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56634 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594890 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual

 Diesel Range Organics (DRO)
 52
 10
 50.00
 0
 104
 70
 130

 Surr: DNOP
 4.7
 5.000
 93.2
 30.4
 154

Sample ID: LCS-56641 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56641 RunNo: 73632 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594891 Units: %Rec SPK value SPK Ref Val %REC %RPD Result POI LowLimit HighLimit **RPDLimit** Qual Surr: DNOP 4.6 5.000 91.1 30.4 154

 Sample ID: 2011B50-001AMS
 SampType: MS
 TestCode: EPA Method 8015M/D: Diesel Range Organics

 Client ID: S1A@4'
 Batch ID: 56634
 RunNo: 73632

 Prep Date: 11/24/2020
 Analysis Date: 11/25/2020
 SeqNo: 2594948
 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Diesel Range Organics (DRO) 48 9.8 49.07 98.8 15 184

Surr: DNOP 5.1 4.907 104 30.4 154

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **\$1A@4'** Batch ID: **56634** RunNo: **73632** 

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 9.8 49.07 127 15 184 25.3 23.9 62

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to 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 11

### Hall Environmental Analysis Laboratory, Inc.

7.0

WO#: **2011B50** *30-Nov-20* 

Client: Talon Artesia
Project: Sand 7 Fed 4

Surr: DNOP

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **\$1A@4'** Batch ID: **56634** RunNo: **73632** 

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

4.907

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

30.4

142

0

154

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594759 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 75.3 105

Sample ID: Ics-56630 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594760 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.9 72.5 106

Surr: BFB 990 1000 99.1 75.3 105

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594783 Units: %Rec

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

Surr: BFB 910 1000 90.6 75.3 105

Sample ID: Ics-56645 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594784 Units: %Rec

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

Surr: BFB 970 1000 97.4 75.3 105

#### Qualifiers:

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

- 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 9 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2011B50

30-Nov-20

**Client:** Talon Artesia **Project:** Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56630 RunNo: 73605

Analysis Date: 11/25/2020 Prep Date: 11/24/2020 SeqNo: 2594808 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual Benzene ND 0.025

Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 99.5 80 120

Sample ID: LCS-56630 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020	Analysis D	Date: 11	/25/2020	S	SeqNo: 2	594809	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.93	0.025	1.000	0	92.8	80	120						
Toluene	0.95	0.050	1.000	0	95.4	80	120						
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120						
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120						
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120						

Sample ID: 2011b50-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: S1A@4' Batch ID: 56630 RunNo: 73605

_										
Prep Date: 11/24/2020	Analysis [	Date: 11	1/25/2020	S	SeqNo: 2	594812	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9506	0	96.4	76.3	120			
Toluene	0.98	0.048	0.9506	0.009951	102	78.5	120			
Ethylbenzene	0.99	0.048	0.9506	0	104	78.1	124			
Xylenes, Total	3.0	0.095	2.852	0	104	79.3	125			
Surr: 4-Bromofluorobenzene	0.99		0.9506		104	80	120			

TestCode: EPA Method 8021B: Volatiles Sample ID: 2011b50-001amsd SampType: MSD

Client ID: S1A@4' Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020	Analysis D	Date: 11	1/25/2020	S	SeqNo: 2	594813	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9470	0	98.9	76.3	120	2.18	20	
Toluene	0.99	0.047	0.9470	0.009951	103	78.5	120	1.16	20	
Ethylbenzene	1.0	0.047	0.9470	0	105	78.1	124	0.729	20	
Xylenes, Total	3.0	0.095	2.841	0	105	79.3	125	0.209	20	
Surr: 4-Bromofluorobenzene	0.96		0.9470		101	80	120	0	0	

#### Qualifiers:

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

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

Page 10 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594832 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID: LCS-56645 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594833 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to 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

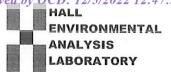
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 11



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

### Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: Talon Artesia Work Order Number: 2011B50 RcptNo: 1 Received By: Juan Rojas 11/24/2020 8:00:00 AM Completed By: **Desiree Dominguez** 11/24/2020 8:31:24 AM Reviewed By: SGC 11/24/20 Chain of Custody 1. Is Chain of Custody complete? No 🗌 Yes 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No NA 🗍 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? Yes No 🗸 NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA 🗸 No Yes Yes 🗀 No V 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🔲 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗸 No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Checked by: JR 11/24/20 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 15. Was client notified of all discrepancies with this order? No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good				
2	1.1	Good				
3	4.3	Good				
4	0.4	Good	1			

Page 1 of 1

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	POS (OE)	5 PCB's	28/808/2 504.1) 507.28 so 507.28 so 19.29 so 19.20 so 19.	oide oide 310 (HO NO //	P15FC Pestii Methby 8 8 M 8 M 8 M 8 M 8 M	4PH;80 8081 PPHs PPHs (CI),F,	7								Time: Relinquished by: Received by: Via: Date Time Remarks: Please cc the following via email: Dadkins@talonlpe.com 0.3 ±0 = 0.3 = 0.1 = 0
Turn-Around Time:	□ Standard ☑ Rush	Project Name:	Samples of Leady	Project #:	200294.364.01	Project Manager:	Rebecca Pons	Sampler: 《()//// On Ice: '' 文字s' □ No	olers: H	Cooler Temp(including CF): See Leven (195)	Container Preservative ADI RSO	100001	77	500-	h00-	500-				Received by: Via: Date Time Received by: Via: Date Time Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time
Chain-of-Custody Record	Client: Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #: 575-441-0980	email or Fax#: (575) 746-8905	QA/QC Package:  □ Standard □ Level 4 (Full Validation)	n: ☐ Az Compliance ☐ Other			Time Matrix Sample Name			7 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	アンストン レン				Date: Time: Relinquished by:  Date: Time: Relinquished by:  Man 1400 (UMM - Linguished by:



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

November 30, 2020

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

RE: Sand 7 Fed 4 OrderNo.: 2011B50

#### Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/24/2020 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,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S1A@4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:30:00 PM

 Lab ID:
 2011B50-001
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst: \	VP
Chloride	ND	60	mg/Kg	20	11/25/2020 8:51:05 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: (	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/25/2020 7:53:20 PM	56634
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/25/2020 7:53:20 PM	56634
Surr: DNOP	118	30.4-154	%Rec	1	11/25/2020 7:53:20 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: I	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Surr: BFB	91.1	75.3-105	%Rec	1	11/25/2020 11:53:47 AM	56630
EPA METHOD 8021B: VOLATILES					Analyst: I	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 11:53:47 AM	56630
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	11/25/2020 11:53:47 AM	56630

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

Qualifiers:

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

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

Page 1 of 11

Date Reported: 11/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S2A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:40:00 PM

 Lab ID:
 2011B50-002
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	220	60	mg/Kg	20	11/25/2020 9:28:19 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 9:03:32 PM	56634
Surr: DNOP	134	30.4-154	%Rec	1	11/25/2020 9:03:32 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: BFB	88.7	75.3-105	%Rec	1	11/25/2020 1:04:12 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Toluene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Xylenes, Total	ND	0.098	mg/Kg	1	11/25/2020 1:04:12 PM	56630
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	11/25/2020 1:04:12 PM	56630

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

Qualifiers:

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

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

Page 2 of 11

# Analytical Report Lab Order 2011B50

Date Reported: 11/30/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S4A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 2:43:00 PM

 Lab ID:
 2011B50-003
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	250	60	mg/Kg	20	11/25/2020 9:40:44 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:26:51 PM	56634
Surr: DNOP	101	30.4-154	%Rec	1	11/25/2020 9:26:51 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: BFB	89.2	75.3-105	%Rec	1	11/25/2020 1:27:46 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Toluene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Ethylbenzene	ND	0.050	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Xylenes, Total	ND	0.10	mg/Kg	1	11/25/2020 1:27:46 PM	56630
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	11/25/2020 1:27:46 PM	56630

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 3 of 11

# Analytical Report Lab Order 2011B50

Date Reported: 11/30/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: S5A-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:00:00 PM

 Lab ID:
 2011B50-004
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	170	60	mg/Kg	20	11/25/2020 9:53:08 PM	56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 9:50:11 PM	56634
Surr: DNOP	93.7	30.4-154	%Rec	1	11/25/2020 9:50:11 PM	56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: BFB	88.8	75.3-105	%Rec	1	11/25/2020 1:51:23 PM	56630
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Toluene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Ethylbenzene	ND	0.048	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Xylenes, Total	ND	0.097	mg/Kg	1	11/25/2020 1:51:23 PM	56630
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	11/25/2020 1:51:23 PM	56630

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 4 of 11

# Analytical Report Lab Order 2011B50

Date Reported: 11/30/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia Client Sample ID: WSW-4'

 Project:
 Sand 7 Fed 4
 Collection Date: 11/17/2020 3:45:00 PM

 Lab ID:
 2011B50-005
 Matrix: SOIL
 Received Date: 11/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>VP</b>
Chloride	120	60	mg/Kg	20	11/25/2020 10:05:33 PM 56664
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/25/2020 10:13:30 PM 56634
Surr: DNOP	117	30.4-154	%Rec	1	11/25/2020 10:13:30 PM 56634
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: BFB	88.2	75.3-105	%Rec	1	11/25/2020 2:14:59 PM 56630
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Toluene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Ethylbenzene	ND	0.047	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Xylenes, Total	ND	0.094	mg/Kg	1	11/25/2020 2:14:59 PM 56630
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	11/25/2020 2:14:59 PM 56630

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

Qualifiers:

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

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

Page 5 of 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: MB-56664 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56664 RunNo: 73610

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594675 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-56664 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56664 RunNo: 73610

Prep Date: 11/25/2020 Analysis Date: 11/25/2020 SeqNo: 2594676 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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 11

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client:	Talon Artesia
Project:	Sand 7 Fed 4

Sample ID: <b>MB-56641</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 56641	RunNo: 73632	
Prep Date: 11/24/2020	Analysis Date: 11/25/2020	SeqNo: <b>2594887</b>	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.4 10.00	94.2 30.4	154

Sample ID: MB-56634	SampT	уре: <b>МВ</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: <b>56</b> 6	634	F	RunNo: <b>7</b> :	3632				
Prep Date: 11/24/2020	Analysis D	ate: 11	/25/2020	8	SeqNo: 2	594888	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	30.4	154			

Sample ID: LCS-56634	SampT	ype: LC	:S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: <b>56</b>	634	F	RunNo: 7	3632				
Prep Date: 11/24/2020	Analysis D	ate: <b>1</b> 1	1/25/2020	8	SeqNo: 2	594890	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP	4.7		5.000		93.2	30.4	154			

Sample ID: LCS-56641	SampType: Lo	CS	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 56	6641	F	RunNo: <b>7</b>	3632				
Prep Date: 11/24/2020	Analysis Date: 1	1/25/2020	5	SeqNo: 2	594891	Units: %Red	:		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6	5.000		91.1	30.4	154			

Sample ID: 2011B50-001AMS	Sampi	ype: IVIS	•	I es	tCode: E	PA Wethod	8015M/D: DI	esei Rango	e Organics	
Client ID: S1A@4'	Batch	1D: <b>56</b>	634	F	RunNo: 7	3632				
Prep Date: 11/24/2020	Analysis D	ate: <b>1</b> 1	1/25/2020	S	SeqNo: 2	594948	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.8	49.07	0	98.8	15	184			
Surr: DNOP	5.1		4.907		104	30.4	154			

Sample ID: 2011B50-001AMS	<b>D</b> SampT	уре: <b>М</b> S	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S1A@4'	Batch	ID: <b>56</b>	634	F	RunNo: <b>7</b> :	3632				
Prep Date: 11/24/2020	Analysis D	ate: 11	/25/2020	8	SeqNo: 2	594949	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	9.8	49.07	0	127	15	184	25.3	23.9	R

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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 11

## Hall Environmental Analysis Laboratory, Inc.

7.0

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Surr: DNOP

Sample ID: 2011B50-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **S1A@4'** Batch ID: **56634** RunNo: **73632** 

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594949 Units: mg/Kg

4.907

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

30.4

142

0

154

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 11

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594759 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 75.3 105

Sample ID: Ics-56630 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594760 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.9 72.5 106

Surr: BFB 990 1000 99.1 75.3 105

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **56645** RunNo: **73605** 

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594783 Units: %Rec

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

Surr. BFB 910 1000 90.6 75.3 105

Sample ID: Ics-56645 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594784 Units: %Rec

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

Surr: BFB 970 1000 97.4 75.3 105

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to 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 9 of 11

#### Hall Environmental Analysis Laboratory, Inc.

1.0

3.0

0.99

0.095

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56630 SampType: MBLK TestCode: EPA Method 8021B: Volatiles
Client ID: PBS Batch ID: 56630 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594808 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 99.5 80 120

1.000

2.852

0.9506

Sample ID: LCS-56630 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 56630 Client ID: LCSS RunNo: 73605 Analysis Date: 11/25/2020 SeqNo: 2594809 Prep Date: 11/24/2020 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.93 0.025 0 92.8 80 120 Benzene Toluene 0.95 0.050 1.000 0 95.4 80 120 0 95.4 80 0.95 0.050 1.000 120 Ethylbenzene 0 95.3 Xylenes, Total 2.9 0.10 3.000 80 120

Sample ID: 2011b50-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: S1A@4 Batch ID: 56630 RunNo: 73605 Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594812 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 96.4 0.92 0.024 0.9506 n 76.3 120 Benzene Toluene 0.98 0.048 0.9506 102 78.5 120 0.009951 104 78.1 Ethylbenzene 0.99 0.048 0.9506 0 124

0

101

104

104

80

79.3

80

120

125

120

 Sample ID: 2011b50-001amsd
 SampType: MSD
 TestCode: EPA Method 8021B: Volatiles

 Client ID:
 \$1A@4'
 Batch ID:
 \$56630
 RunNo:
 73605

 Prep Date:
 \$11/24/2020
 Analysis Date:
 \$11/25/2020
 \$SeqNo:
 \$2594813
 Units:
 \$mg/Kg

 Analyte
 Result
 PQL
 \$PK value
 \$PK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPDLimit
 Qual

 Benzene
 0.94
 0.024
 0.9470
 0
 98.9
 76.3
 120
 2.18
 20

 Toluene
 0.99
 0.047
 0.9470
 0.009951
 103
 78.5
 120
 1.16
 20

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLIMIT	(
Benzene	0.94	0.024	0.9470	0	98.9	76.3	120	2.18	20	
Toluene	0.99	0.047	0.9470	0.009951	103	78.5	120	1.16	20	
Ethylbenzene	1.0	0.047	0.9470	0	105	78.1	124	0.729	20	
Xylenes, Total	3.0	0.095	2.841	0	105	79.3	125	0.209	20	
Surr: 4-Bromofluorobenzene	0.96		0.9470		101	80	120	0	0	

#### Qualifiers:

Xylenes, Total

\* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

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 11

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011B50** 

30-Nov-20

Client: Talon Artesia
Project: Sand 7 Fed 4

Sample ID: mb-56645 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594832 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID: LCS-56645 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56645 RunNo: 73605

Prep Date: 11/24/2020 Analysis Date: 11/25/2020 SeqNo: 2594833 Units: %Rec

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

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to 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

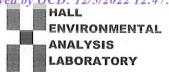
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name:	Talon Artes	sia	Work	Order Numb	per: 2011B50		RcptNo:	1
Received By:	Juan Roja	s	11/24/20	020 8:00:00	AM	Guaren Is		
Completed By:	Desiree D			020 8:31:24		June 19		
Reviewed By:			11/2-1/20	320 0.01.24	AWI	1113		
ricvicuod by.	5CTC 1111	27160						
Chain of Cus	tody							
1. Is Chain of Co	ustody compl	lete?			Yes 🗸	No 🗌	Not Present	
2. How was the	sample deliv	ered?			Courier			
Log In								
3. Was an attern	npt made to c	ool the sample	es?		Yes 🗸	No 🗌	NA 🗌	
					_	$\Box$		
4. Were all samp	ples received	at a temperati	ure of >0° C t	o 6.0°C	Yes 🗸	No 📙	NA 🗌	
5. Sample(s) in p	proper contai	ner(s)?			Yes 🗸	No 🗌		
0. 0.#:-!	-1					N. $\square$		
6. Sufficient sam				-10	Yes 🗸	No 🗌		
<ol> <li>7. Are samples (</li> <li>8. Was preserva</li> </ol>		MCB :	perly preserve	d?	Yes 🔽	No □ No ☑	NA 🗌	
O. Was preserva	nive added to	bottles?			Yes 🗌	NO 💌	NA 🗆	
<ol><li>Received at le</li></ol>	east 1 vial with	h headspace <	<1/4" for AQ V	OA?	Yes	No 🗌	NA 🗹	
10. Were any san	mple containe	ers received br	oken?		Yes	No 🗸	# of preserved	
11 Dans		W- I-I-I-O			v [4	N. [7]	bottles checked	
<ol> <li>Does paperwo (Note discrepa</li> </ol>					Yes 🗸	No 🗀	for pH: (<2 or	>12 unless noted)
2. Are matrices of		•			Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what	t analyses we	ere requested?	•		Yes 🗸	No 🗌		
4. Were all holding	10.70 (c) 10.00				Yes 🗸	No 🗆	Offecked by:	18 11/50/5
(If no, notify co	ustomer for a	uthorization.)				0		
Special Handl	ling (if app	olicable)						
15. Was client no	otified of all di	screpancies w	vith this order?		Yes	No 🗌	NA 🗸	
Person	Notified:			Date:		SECURIOR SERVICE SERVI		
By Who	om:		Name of the latter of the late	Via:	eMail	Phone Fax	In Person	
Regard	ing:	-	THE RESERVE AND THE PERSON NAMED IN			Marie Commission of Commission	MINISTERNA MAZZILI MAZ	
Client In	nstructions:	The state of the s						
16. Additional re	marks:							
17. <u>Cooler Infor</u>	rmation							
Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By		
1	0.3	Good						
2	1.1	Good						
3	4.3	Good						
4	0.4	Good						

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	POS (OE)	5 PCB's	28/808/2 504.1) 507.28 so 507.28 so 19.29 so 19.20 so 19.	oide oide 310 (A) (A)	P15FC Pestii Methby 8 8 M 8 M 8 M 8 M 8 M	4PH;80 8081 PPHs PPHs (CI),F,	7								Time: Relinquished by: Received by: Via: Date Time Remarks: Please cc the following via email: Dadkins@talonlpe.com 0.3 ±0. = 0.3 ** (1,1=0=1.1°)**  Received by: Received by: Via: Date Time Remarks: Please cc the following via email: Received by: Received by: Via: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.3 ±0. = 0.4 ** (1,1=0=1.1°)**  Received by: Received by: Nia: Date Time Bsinclair@talonlpe.com 4.
Turn-Around Time:	□ Standard ☑ Rush	Project Name:	Samples of Leady	Project #:	200294.364.01	Project Manager:	Rebecca Pons	Sampler: 《()//// On Ice: '' 文字s' □ No	olers: H	Cooler Temp(including CF): See Leven (195)	Container Preservative ADI RSO	100001	1	500-	h00-	500-				Received by: Via: Date Time Received by: Via: Date Time Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time  Received by: Via: Date Time
Chain-of-Custody Record	Client: Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #: 575-441-0980	email or Fax#: (575) 746-8905	QA/QC Package:  □ Standard □ Level 4 (Full Validation)	n: ☐ Az Compliance ☐ Other			Time Matrix Sample Name		1	7 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	アンストン レン				Date: Time: Relinquished by:  Date: Time: Relinquished by:  Man 1400 (UMM - Linguished by:

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

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

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

CONDITIONS

Action 163870

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	163870
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
amaxwel	I None	2/2/2023