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# **Remediation and Closure Report**

Hackberry 26 Fed Com 1H Eddy County, New Mexico API # 30-015-43856 Incident # **Nvv2002839011** 

# **Prepared For:**

Cimarex Energy 600 N Marienfeld Ste 60 Midland, TX 79701

# **Prepared By:**

TALON/LPE 408 West Texas Avenue Artesia, New Mexico 88210

# **Rev. October 19 2020**

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Mr. Mike Bratcher **NMOCD District 2** 811 S. 1<sup>st</sup> Street Artesia, NM 88210 Mr. Jim Amos BLM 620 E. Greene St. Carlsbad, NM 88220

Subject: Remediation and Closure Report Hackberry 26 Fed Com 1H Eddy County, NM API # 30-015-43856

Dear Mr. Bratcher,

Emergency Response & Training Solutions Company (ERTS) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

# Site Information

The Hackberry Battery is located approximately 24 miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter A, Section 26, Township 19 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.6360706 North and -103.9375763 West. Site plans are presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Pajarito loamy fine sand, 0 to 3 percent slopes. The referenced soil data is attached in Appendix II. The local surface and shallow geology are Holocene to upper Pleistocene in age and is comprised of alluvial deposits. Drainage courses in this area are well drained. The project site is located in a high Karst potential area (Figure 5, Appendix I).

# Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 65-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

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.

Approximate Depth to	o Groundwater	65 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing w any other significant watercourse	atercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or a	playa lake
□Yes ⊠No	Within 300 feet from an occupied permanent school, hospital, institution or church	residence,
□Yes ⊠No	Within 500 feet of a spring or a private, dome well used by less than five households for do watering purposes	estic fresh water
□Yes ⊠No	Within 1000 feet of any freshwater well or sp	ring
□Yes ⊠No	Within incorporated municipal boundaries or municipal freshwater well field covered unde ordinance adopted pursuant to Section 3-270	within a defined r a municipal )3 NMSA 1978
□Yes ⊠No	Within 300 feet of a wetland	
□Yes ⊠No	Within the area overlying a subsurface mine	
⊠Yes ⊟No	Within an unstable area	
□Yes ⊠No	Within a 100-year floodplain	

As this incident occurred in an unstable area that is categorized as critical karst, the closure criteria for this site is as follows:

	Tab	le l	
	<b>Closure Criteria for Soils</b>	Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I TDS	Constituent	Method	Limit
<u>&lt;</u> 50 feet	Chloride	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 May 06, 2019, 7barrels (bbls) of produced water (of which non-was recovered) were released due to human error. An oil hauler overfilled the tank on the transport ruck while loading. An initial C-141 was submitted on May 07, 2019 and is provided in Appendix III. The Incident Number assigned to this incident is **Nvv2002839011**.

# Site Assessment

On August 07, 2019 Talon mobilized personnel to begin site assessment and soil sampling activities. Grab soil samples were initially collected from the impacted area utilizing a hand auger. All soil samples were properly contained, preserved and Transported to Cardinal Laboratories for analyses of Chloride (SM4500CI-B), BTEX (8021B), and TPH (8015M). Analytical results from our initial sampling events are presented in the following data table. Initial site assessment sample positions are illustrated on Figure 3, in Appendix I. Complete laboratory reports can be found in Appendix VI.

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		I able	<u> </u>	al Soll Sal	<u>mpie Ana</u>	aiysis			
Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
0 19	Closure C .15.29.12	riteria 2 NMAC	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1	0	8/7/2019	ND	ND	ND	102	129	231	64
S-1	1	8/7/2019	ND	ND	ND	41.5	44.3	85.8	48
S-1	2	8/7/2019	ND	ND	ND	ND	ND	-	32
S-2	0	8/7/2019	ND	ND	ND	ND	ND	-	256
S-2	1	8/7/2019	ND	ND	ND	ND	ND	-	80
S-2	2	8/7/2019	ND	ND	ND	ND	ND	-	32
	0	8/7/2019	0.711	ND	88.8	10200	2800	13088.8	80
S-3	1	8/7/2019	ND	ND	ND	ND	ND	-	16
	2	8/7/2019	ND	ND	ND	ND	ND	-	30
	0	8/7/2019	ND	ND	ND	5920	1120	7040	688
S-4	1	8/7/2019	ND	ND	ND	ND	24.1	24.1	224
	2	8/7/2019	ND	ND	ND	ND	ND	ND	32
	0	8/7/2019	ND	ND	ND	2120	772	2892	208
S-5	1	08/7/2019	ND	ND	ND	110	28.6	138.6	96
	2	08/07/2019	ND	ND	ND	17.8	ND	17.8	96
	0	08/07/2019	ND	ND	ND	332	134	468	48
S-6	1	08/07/2019	ND	ND	ND	ND	ND	ND	64
	2	08/07/2019	ND	ND	ND	ND	ND	ND	32
	0	08/07/2019	ND	ND	ND	ND	ND	ND	160
S-7	1	08/07/2019	ND	ND	ND	ND	ND	ND	48
	2	08/07/2019	ND	ND	ND	ND	ND	ND	16
	0	08/07/2019	ND	ND	ND	25.4	12.9	38.3	80
S-8	1	08/7/2019	ND	ND	ND	ND	ND	ND	48
	2	08/07/2019	ND	ND	ND	ND	ND	ND	32

ND = Analyte Not Detected

Based on the results of our site assessment and upon client authorization, excavation activities commenced on April 20,2020. Approximately 0.5' bgs. was excavated throughout the impacted area. Confirmation samples were collected at the base of sidewalls which also serve as bottom confirmation of soil analytes and that NMOCD closure criteria had been met, for the analytes of concern. The results of which can be found in the following data table. Confirmation sample locations and excavation dimensions can be found on Figure 4 in Appendix I. Complete laboratory reports are attached in Appendix VI.

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Sample ID	Depth (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg	
S-1 S SW	.5'	4/15/2020	NT	NT	ND	420	310	730	NT
S-2 S SW	.5'	4/15/2020	NT	NT	ND	3400	1600	5000	NT
S-3 W SW	.5'	4/15/2020	NT	NT	46	5900	2400	8300	NT
S-4 N SW	.5'	4/15/2020	NT	NT	ND	300	260	560	NT
S-5 N SW	.5'	4/15/2020	NT	NT	ND	800	540	1340	NT
S-6 E SW	.5'	4/15/2020	NT	NT	ND	280	310	590	NT
S-7 E SW	.5'	4/15/2020	NT	NT	ND	1500	1200	2700	NT

Table 2: Confirmation Soil Sample Analysis

ND = Analyte Not Detected

SW = Sidewall Soil Sample

NT = Analyte Not Tested

On May 08,2020 based on the laboratory results from the sidewall excavation, Talon equipment and personnel returned to the Hackberry. All of the above referenced sidewall positions (S1 thru S7) were further excavated horizontally in an effort to remove Petroleum Hydrocarbons to the extent that regulatory remediation levels could be achieved. The sample positions are slightly different to that of the event dated April 15,2020 however the sample position labels were maintained for ease of reference in delineation efforts, sample locations can be viewed in Appendix I. Composite samples were grabbed of the sidewalls, properly contained, preserved, and transported to Hall Laboratories for analysis of the constituency of concern. Below is a table referencing the results. The supporting laboratory analyses can be viewed in Appendix VI.

Sample ID	Depth (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1 S SW	.5'	5/08/2020	NT	NT	ND	1000	590	1590	NT
S-2 S SW	.5'	5/08/2020	NT	NT	ND	12000	5900	17900	NT
S-3 W SW	.5'	5/08/2020	NT	NT	ND	170	140	310	NT
S-4 N SW	.5′	5/08/2020	NT	NT	ND	18	ND	18	NT
S-5 N SW	.5'	5/08/2020	NT	NT	ND	120	130	250	NT
S-6 E SW	.5′	5/08/2020	NT	NT	ND	510	770	1280	NT

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	_								
S-7 E SW	.5′	5/08/2020	NT	NT	ND	140	150	290	NT

On May 20, 2020 based on the laboratory results and sample results from sidewalls: Talon personnel and equipment returned to the site in order to advance test trenches in each of the above referenced areas of impact, so that horizontal delineation could be ascertained. It was determined that test trenches to 4' would encompass the remaining areas of focus. An additional 1' in the sidewall was removed in the areas of S1 and S6 respectively, and stockpiled. All soil samples were properly packaged preserved and transported to Hall Environmental Analysis Laboratory, Inc., by chain of custody for analysis of TPH (Method 8015M/D), which was the analyte of concern. Below is a table of reference for the results. The complete laboratory report can be viewed in Appendix VI.

Sample ID	Horizontal (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
( 19	Closure Criter .15.29.12 NN	ia 1AC	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
TT-1	1' 5/20/2020		NT	NT	ND	30	ND	30	NT
TT-1	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-1	3'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-1	4'	5/20/2020	NT	NT	ND	53	ND	ND	NT
TT-2	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-2	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-2	3'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-2	4'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-3	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-3	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	2'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	3'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-6	4'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-7	1'	5/20/2020	NT	NT	ND	ND	ND	ND	NT
TT-7	2′	5/20/2020	NT	NT	ND	ND	ND	ND	NT

ND= Analyte Not Detected NT= Analyte Not Tested

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On June 30, 2020 Talon personnel and equipment mobilized to the site in order to further excavate the area of S2 and S3 an additional 1' bgs., as well as advance the sidewall an additional foot past the high-pressure line that traversed perpendicular to the production facility. Pursuant to the test trench results, the sidewall of S1 and S6 was advanced an additional foot horizontally. Cimarex shut in the facility due to safety concerns regarding the high-pressure line and gave consent for the remediation of this area to ensue. A composite sidewall sample was retrieved at 1' bgs. in the area of S2-S3. The soil was properly contained, preserved and transported to Hall Laboratories for analysis of TPH (Method 8015 M/D). The results are recapped below. The complete laboratory report can be viewed in Appendix IV.

Sample ID	Depth (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
	Closure Criter 19.15.29.12 NN	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg	
S2-S3 SW	2-S3 1' W Composite 6/30/2020			NT	ND	11	61	72	NT

SW= Sidewall

NT= Analyte Not Tested

ND= Analyte Not Detected

On July 27,2020 Talon personnel revisited the site in order to grab background pursuant to NMOCD guidelines, confirming that horizontal remediation had been achieved. Furthermore, that the spill footprint was confined to the pad area. Three background samples were grabbed on the East, West, and South of the remediated area. The samples were properly contained, preserved, and transported to Hall Laboratories for analysis of TPH. The results are recapped below for ease of reference. The complete Laboratory analysis can be viewed in Appendix IV.

Sample ID	Horizontal (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria			50	10				100	600
19.15.29.12 NMAC			mg/kg	mg/kg				mg/kg	mg/kg
BG-East	0-1' Composite	7/27/2020	NT	NT	ND	ND	ND	-	200
BG-	0-1'		NIT	NT	NID	NID	ND		1.00
South	Composite		NI	NI	ND	ND	ND	-	160
BG-	0-1'		NT	NT	ND	ND	ND		120
West	Composite				ND	ND	ND	-	120

NT= Analyte Not Tested

# ND= Analyte Not Detected

On October 01, 2020, pursuant to the NMOCD's request, Talon personnel returned to the site in order to auger to the depths of the excavation of the remediated area at sample positions S-3, S-4, and S-5 respectively. Grab soil samples were retrieved, properly packaged, preserved, and transported to Hall Laboratories for analyses of Total Chlorides (EPA 300.0), TPH (EPA 8015M), and BTEX (EPA 8021B). Results are tabled below and the laboratory results can be referenced in Appendix IV.

Sample ID	Depth (ft.)	Date	BTEX (mg/k g)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
	Closure Criter 19.15.29.12 NN	50 mg/k g	10 mg/kg				100 mg/kg	600 mg/kg	
S-1	2′	10/01/2020	ND	ND	ND	ND	ND	-	ND
S-2	2′	10/01/2020	ND	ND	ND	ND	ND	-	ND
S-3	2′	10/01/2020	ND	ND	ND	ND	ND	-	ND
S-4	2′	10/01/2020	ND	ND	ND	ND	ND	-	ND

ND= Analyte Not Detected

# **Remedial Actions**

- The footprint of the spill area was excavated to 0.5' bgs. in its entirety.
- The impacted area surrounding sample points S2 and S3 respectively was removed to a depth of 3.0-feet.
- The sidewalls were advanced in accordance with test trench results, thereby achieving soil remediation levels in accordance with NMOCD and BLM guidelines. The results are shown in the corresponding lab reports that may be viewed in Appendix VI.
- All the excavated material (542.95 tons of contaminated soil) was hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility. Disposal Manifest are appended (Appendix VII).
- The excavated areas on the well pad were backfilled with topsoil at depth followed by 1.5-feet of new caliche to grade, machine compacted and contoured to match the surrounding location. The farmland excavation to the southwest of the location was backfilled with topsoil.
- The Final C-141 formally documenting the remedial actions is attached in Appendix III.

# Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of ERTS and Cimarex Energy we request that no further actions be required, and that closure of this incident be granted.

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

Respectfully submitted,

TALON/LPE

Rebecca Pons Project Manager David J. Adkins Regional Manager

Attachments:

Appendix ISite MapsAppendix IISoil Survey, Groundwater DataAppendix IIIInitial and Final C-141Appendix IVBoring LogsAppendix VPhotographic DocumentationAppendix VILaboratory DataAppendix VIIDisposal Manifests

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# **APPENDIX I**

# SITE MAPS

. Released to Imaging: 1/19/2021 11:17:01 AM

Received by OCD: 10/21/2020 10:38:48 AM Hackberry 26 Federal Battery Cimarex Eddy County, NM API 30-015-43857

S-4

S-8 0

S-3 -

S-2

S-5

S-7

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S-6

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Cimarex Energy Company API # 30-015-43856 Eddy County, NM Excavation Map



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SUI

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- Excavation 0.5 ft.
- Excavation 1.0 ft.
- So High Pressure Line
- Sample Position











# <u>APPENDIX II</u>

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# FEMA FLOOD ZONE

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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been repl O=orphan C=the file closed)	=POD has en replaced, =orphaned, =the file is (quarters are 1=NW 2=NE 3=SW 4=SE) osed) (quarters are smallest to largest) (NAD83 UTM in meters)										eters)	(In feet)		
		POD													
		Sub-		Q	Q	Q								Wa	ter
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х	Y	DistanceDepthV	VellDepthWa	ter Colu	ımn
<u>CP 00722 POD2</u>		СР	ED	2	1	1	25	19S	30E	600276	3611620* 🌍	727	350	65	285
CP 00357 POD2		СР	ED	4	3	1	24	19S	30E	600265	3612627* 🌍	1603	630		
CP 00828 POD1		СР	LE		1	1	35	19S	30E	598585	3609900* 🌍	1684	90		
CP 00357 POD1		СР	ED	4	4	1	24	19S	30E	600667	3612631* 🌍	1774	630		
<u>CP 00827 POD1</u>		СР	LE		3	3	35	19S	30E	598596	3608694* 🌍	2677	100		
CP 00873 POD1		СР	LE		1	1	19	19S	31E	601772	3613147* 🌍	2865	340	180	160
CP 00822 POD1		СР	LE		4	4	15	19S	30E	598148	3613516* 🌍	2902	90		
											Averag	ge Depth to Water:		122 feet	
												Minimum Depth:		65 feet	
												Maximum Depth:		180 feet	
Record Count: 7															
UTMNAD83 Radius	<u>s Search (in</u>	meters	) <u>:</u>												
<b>Easting (X):</b> 599	762.762		North	ing	(Y	):	3611	104.14	9		Radius: 3000				
*UTM location was derived	from PLSS -	- see Help	)												
The data is furnished by the N accuracy, completeness, reliab	MOSE/ISC ility, usability	and is ac y, or suita	cepted by th bility for an	ie re y pa	cipi	ent ular	with t purpo	he expr se of th	essed un e data.	derstanding th	nat the OSE/ISC ma	ke no warranties, expr	essed or implied,	concernin	g the

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WATER COLUMN/ AVERAGE DEPTH TO WATER

# Eddy Area, New Mexico

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

### **Map Unit Setting**

National map unit symbol: 1w54 Elevation: 2,700 to 5,500 feet Mean annual precipitation: 5 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 250 days Farmland classification: Not prime farmland

# **Map Unit Composition**

Pajarito and similar soils: 100 percent Estimates are based on observations, descriptions, and transects of the mapunit.

# **Description of Pajarito**

### Setting

Landform: Interdunes, dunes, plains Landform position (three-dimensional): Side slope Down-slope shape: Linear, convex Across-slope shape: Linear, convex Parent material: Mixed alluvium and/or eolian sands

# **Typical profile**

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

# Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural 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 in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 7.9 inches)

# Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: Loamy Sand (R042XC003NM) Released to Imaging: 1/19/2021 11:17:01 AM

Hydric soil rating: No

# Minor Components

# Wink

Percent of map unit: Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

# Berino

Percent of map unit: Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

# Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018

USDA

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Received by OCD: 10/21/2020 10:38:48 AM

# National Flood Hazard Layer FIRMette









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# APPENDIX III

# **INITIAL C-141**

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District 1 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	
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party Cimarex Energy	OGRID 215099
Contact Name Christine Alderman	Contact Telephone 432-853-7059
Contact email calderman@cimarex.com	Incident # (assigned by OCD)
Contact mailing address 600 N Marienfeld Ste 60, Midland, TX 79701	

# Location of Release Source

Latitude 32.6360706\_

Longitude -103.9375763 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Hackberry 26 Fed Com 1H	Site Type production battery
Date Release Discovered 5/6/2019	API# (if applicable) 30-015-46856

Unit Letter	Section	Township	Range	County
A	26	198	30E	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 justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	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

Oil hauler overfilled tank on truck while loading. Human error.

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State of New Mexico Oil Conservation Division

Incident ID	NVV2002839011
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be 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: (Mristine Alderman	Title: ESH Supervisor
Signature: Christice alderman	Date: 1-15-20
email: <u>Calderman @ Cimarex. com</u>	Telephone: <u>432-853-7059</u>
OCD Only	
Received by: Victoria Venegas	Date: 01/15/2020
X Approved Approved with Attached Conditions of A	pproval 🗌 Denied 🔲 Deferral Approved
-Penel !	
Signature:	Date: 03/16/2020

Form C-141 Page 2

<sup>2</sup>age 26 of 124

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?	
🗌 Yes 🛛 No		

If YES, was immediate notice 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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Christine Alderman	Title:ESH Supervisor
Signature: ( Alderman	Date:05/07/2019
email:calderman@cimarex.com	Telephone: 432-853-7059
OCD Only	
Received by:	Date:

Released to Imaging: 1/19/2021 11:17:01 AM

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State of New Mexico **Oil Conservation Division** 

Incident ID	Nvv2002839011
District RP	
Facility ID	30-015-43856
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name:	Rebecca S. Pons	Title:	Project Manager
Signature:		Date:	07/24/2020
email:Rpo	ns@ talonlpe.com	Telepho	ne: 575-441-0980

Cristina Eads Received by:

Date: 01/19/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Received by OCD: 10/21/2020 10:38:48 Closure Approved by

Date: 01/19/2021

Printed Name: Cristina Eads

**Environmental Specialist** Title:

10:2 Released to Imaging: 1/19/2021 11:1



# APPENDIX IV

# LABORATORY DATA

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August 08, 2019

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

**RE: HACKBERRY 26 BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 08/07/19 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/qa/lab">www.tceq.texas.qov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mite Sugar

Mike Snyder For Celey D. Keene Lab Director/Quality Manager

Page 1 of 29

Released to Imaging: 1/19/2021 11:17:01 AM



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 1 0 (H902714-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 73.3-12	9						

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/08/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	102	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	129	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	73.4%	6 41-142	•		-				
Surrogate: 1-Chlorooctadecane	74.8 %	6 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 2 of 29

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 1 1 (H902714-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2,03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	41.5	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	44.3	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	78.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.0	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 1 2 (H902714-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	81.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 2 0 (H902714-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms		1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2,27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/08/2019	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142	)						
Surrogate: 1-Chlorooctadecane	85.7	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 2 1 (H902714-05)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2,27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0,0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	79.4 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	83.0 9	37.6-14	7						

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 1/19/2021 11:17:01 AM



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 2 2 (H902714-06)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2,02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2,00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2,00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	81.0	% 41-142	)						
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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mr. Such

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 3 0 (H902714-07)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	0.090	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	0.063	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	0.557	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	0.711	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	5 73.3-12	9						
Chloride, SM4500Cl-B	mg/i	<g< td=""><td colspan="3">Analyzed By: AC</td><td></td><td></td><td></td><td></td></g<>	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	88.8	50.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	10200	50.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	2800	50.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	138 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	417 %	6 37.6-14	7						

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 1/19/2021 11:17:01 AM


TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 3 1 (H902714-08)

Analyte	mg/kg		Analyze	Analyzed By: ms					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6,12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE 99.4 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2019	ND	207	104	200	2.17	
DRO >C10-C28*	<10.0	10.0	08/07/2019	ND	210	105	200	0.0872	
EXT DRO >C28-C36	<10.0	10.0	08/07/2019	ND					
Surrogate: 1-Chlorooctane	86.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	17						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

#### Sample ID: S - 3 2 (H902714-09)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2,10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	30.3	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	88.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	93.1 9	37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

#### Sample ID: S - 4 0 (H902714-10)

Analyte	mg/	mg/kg		Analyzed By: ms					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6,00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.9 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	5920	50.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	1120	50.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	257	% 37.6-14	17						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 4 1 (H902714-11)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	24.1	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	68.9	% 41-142							
Surrogate: 1-Chlorooctadecane	73.5	% 37.6-14	7						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 4 2 (H902714-12)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10,0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	71.09	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.3 9	37.6-14	7						

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#### Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 5 0 (H902714-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	2120	50.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	772	50.0	08/08/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142 Surrogate: 1-Chlorooctadecane 167 % 37.6-147

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#### Analytical Results For:

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

#### Sample ID: S - 5 1 (H902714-14)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2,00	1,85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1,82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2,27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	110	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	28.6	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	81.79	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.6%	% 37.6-14	7						

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 5 2 (H902714-15)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.3 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	17.8	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	80.1 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	85.4 9	37.6-14	7						

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#### Analytical Results For:

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 6 0 (H902714-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms				· · · · · · · · · · · · · · · · · · ·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0,050	0.050	08/08/2019	ND	2.14	107	2.00	1,85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1,82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2,27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.5 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	332	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	134	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	17						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 6 1 (H902714-17)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	78.6 9	% 41-142	?	····					
Surrogate: 1-Chlorooctadecane	84.9 9	% 37.6-14	7						

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\*=Accredited Analyte

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 6 2 (H902714-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	

ND

 EXT DRO >C28-C36
 <10.0</th>
 10.0
 08/08/2019

 Surrogate: 1-Chlorooctane
 75.0 %
 41-142

 Surrogate: 1-Chlorooctadecane
 79.4 %
 37.6-147

\*=Accredited Analyte

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 7 0 (H902714-19)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	78.8	% 41-142	?	· · · · · · · · · · · · · · · · · · ·					

# \*=Accredited Analyte

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Surrogate: 1-Chlorooctadecane

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

82.8 %

37.6-147



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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 7 1 (H902714-20)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2019	ND	2.10	105	2.00	2.02	
Toluene*	<0.050	0.050	08/08/2019	ND	2.14	107	2.00	1.85	
Ethylbenzene*	<0.050	0.050	08/08/2019	ND	2.03	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/08/2019	ND	6.12	102	6.00	2.27	
Total BTEX	<0.300	0.300	08/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	73.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	75.9	% 37.6-14	7						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

#### Sample ID: S - 7 2 (H902714-21)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.2	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 8 0 (H902714-22)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2,00	2,19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1,19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2,00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.2 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	25.4	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	12.9	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	54.5	% 41-142	•						x.
Surrogate: 1-Chlorooctadecane	60.6	% 37.6-14	7						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 8 1 (H902714-23)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1,19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0,598	
Total Xylenes*	<0,150	0,150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	75.1	% 41-142	2						
Surrogate: 1-Chlorooctadecane	78.4	% 37.6-14	17						

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Received:	08/07/2019	Sampling Date:	08/07/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	HACKBERRY 26 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701901.088.01	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

# Sample ID: S - 8 2 (H902714-24)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2019	ND	1,97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0,598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94,4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2019	ND	205	103	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/08/2019	ND	200	100	200	0.868	
EXT DRO >C28-C36	<10.0	10.0	08/08/2019	ND					
Surrogate: 1-Chlorooctane	77.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	81.8	% 37.6-14	17						

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PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Candinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inddental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its sublicities, affiliates or successors arising out of or related to the performance of the services hereunder by Candinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal kithin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of uses of uses of uses of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or obtenvise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Page 55 of 124

ject Manager: (_Wris Tones P.O. *: Iress: 408 ()- Tex 45 Ir: Artesia State: NM Zip: 88210 Attn: Ine *: 621 - 6977 Fax *: Address:
$\frac{112851}{17} \frac{1}{47} \frac{1}{45} \frac{1}{10} \frac{1}{100} 1$
r. Artesia State: NM Zip: 密8210 Attn: me業 621 - 6977 Fax券 Address:
<u>yne ※ (03(- 6977 Fax 条)</u> Address:
ject # 701901.088.01 Project Owner: (imace, City:
ject Name: Heck perty 26 Bettery State: Zip:
iect Location: Eddy (NM) Phone A:
npier Name: CTove S Fax #
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25-1 1 1 1 1 1 1 1 1005 1 1 1
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Page 27 of 29

Laboratories

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Relinguished By Project Name: Hoy City: Company Name: PLEASE NOTE: Lisbilly and Dam analyses. All claims including thos service. In no event shall Cardinal Sampler Name: Project Location: Project Manager: Relinquished Sy: Phone 些 Sampler - UPS - Bus - Other: Address: Yrojact 浒 Delivered By: (Circle One) FOR LAB USE ONLY 1902714 Lab I.D. Y Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326
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 Artesis 80/2 631-2 701 901 . 088.01 Project Owner: à 3 Ř γ 1  $\sum_{i=1}^{n}$ しい いう 5-6 いろ 2-4 5-0 n Y 3 oges. Cutdinal's lis L L 5 7 - hris 1010 12 man p p 9101 Sample I.D Jexes Tores 0 V 0 CPE 0 U 0 2 2 "Ostecter 15.40 Kottery TIPE:22 Tex 幸: Date: Time: regenuese remedy for one datin atolog whither before in contracter tail, shall be limited in the sumaute public by the datin atolog whither before the pollicable by which and the pollicable by the datin at the pollicable of the pollicable on the contract of the pollicable on the pollicable on the contract of the pollicable on the pollicable on the contract of the pollicable of the pollicable on the pollicable on the pollicable of the pollic State: 8-7-19 NN ZIP: 88245 5 (G)RAB OR (C)OMP. Received, By: 5 Received By ( I welck # CONTAINERS GROUNDWATER No No No Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE State: City: Fax 許 で,0、湾 OTHER : Phone 些 Atten: Company: Address: ACID/BASE: PRESER 40 CHECKED BY: (Initials) ICE / COOL OTHER : 5-7-12 :dlZ 0 DATE SAMPLING 03 0.50 Phone Result: Fax Result: REMARKS: 1055 1130 1125 1115 100 TEME 1122 12 1110 ŵ Chlorides BTEX TPH Ext. I Yes I No S USh 1 Add'l Fax 許 ANALYSIS REQUEST 40 2 W

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240

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(578) 292-2326 FAX (575) 393-2476

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Page 56 of 124

Page 57 of 124

∱ Cardinał cannoi accept verba! changes. Please fax written changes to (575) 393-2326	Inversed By: (Circle One) 15.46 JH7 Sample Condition CHECKED E The Inverse Sus - Other: Condition (Initials) The Inverse Sus - Other: Condition (Initials) The Inverse Sus - Other: Condition (Initials) The Inverse Sus - Other: Condition (Initials)	nquished By: 5 Date: Received By:	iquistical Birt Date: 719 Received By:	a vol iz Judiu Stali Gradina (and se stali se In se sveni stali Cardina ji fabi spotostatu iz posodurani danaga, ketuding vilati ta tatista tato stali se sta			2452	23 5-2 [		(G)RABOR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL SILUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	LAB USE ONLY MATRIX PRESERV S	pler Name: (Jo, røs Fax #:	ect Location: Eddy , M Phone #:	ect Name: Harlborry 26 Bottory State: Zip	ect # 701 901 - 088 .01 Project Owner: Cimerer City:	ne 茶: 631 - 697 つ Fax 株: Address:	: Actosia state: NN Zip: 88216 Attn:	ress: 408 W. Takas Company: Ta	ect Manager: Chris Jones P.O. 崇	$10 \pm 10$ Name: $\int \frac{1}{2} $	101 East Marland, Hobbs, NM 88246 (575) 353-2326 FAX (575) 353-2476		/ Laboratories	
eived by OCD: 10/21/2020 10:38:48 AM	Brow Int Strucht to Jah from frils	relivances:	Phone Result: D Yes D No Add'I Phone #: Fax Result: D Yes D No - Add'I Fax #:	Transa i pada uy the diabh dar the Transa i feada uy the diabh dar the Reference of the applicable Future of the sub-diables,						ATE TIME BTER TPH		ks xt		•						ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		

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April 20, 2020

Chris Jones Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX:

RE: Hackberry 26 Fed Btty

OrderNo.: 2004753

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/16/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: BFB

Analytical Report	
Lab Order 2004753	

4/16/2020 10:15:37 AM G68175

Hall Environmental Analys	Inc.			Date Reported: 4/20/20	20	
CLIENT: Talon Artesia		Clie	nt Sample II	<b>D:</b> S-	-1 S SW 0.5'	
<b>Project:</b> Hackberry 26 Fed Btty		Co	ollection Dat	<b>e:</b> 4/	15/2020 11:58:00 AM	
Lab ID: 2004753-001	Matrix: SOIL         Received Date: 4/16/2020 9:15:00 A					
Analyses	Result	RL (	Qual Units	DF	<b>Date Analyzed</b>	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	420	10	mg/Kg	1	4/16/2020 10:31:12 AM	1 51849
Motor Oil Range Organics (MRO)	310	50	mg/Kg	1	4/16/2020 10:31:12 AN	1 51849
Surr: DNOP	97.5	55.1-146	%Rec	1	4/16/2020 10:31:12 AM	1 51849
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	21	mg/Kg	5	4/16/2020 10:15:37 AM	1 G68175

97.4

66.6-105

%Rec

5

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

**Qualifiers:** 

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

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

Page 1 of 9

**Analytical Report** 

Hall E	nvironmental Analy	sis Laboratory, Inc.	Lab Order <b>2004753</b> Date Reported: <b>4/20/2020</b>
CLIENT:	Talon Artesia		Client Sample ID: S-2 S SW 0.5'
Project:	Hackberry 26 Fed Btty		Collection Date: 4/15/2020 12:01:00 PM
Lab ID:	2004753-002	Matrix: SOIL	Received Date: 4/16/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	3400	95		mg/Kg	10	4/16/2020 10:36:04 AM	51849
Motor Oil Range Organics (MRO)	1600	480		mg/Kg	10	4/16/2020 10:36:04 AM	51849
Surr: DNOP	0	55.1-146	S	%Rec	10	4/16/2020 10:36:04 AM	51849
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	4/16/2020 10:39:11 AM	G68175
Surr: BFB	112	66.6-105	S	%Rec	5	4/16/2020 10:39:11 AM	G68175

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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 9

	Analytical Report
	Lab Order 2004753
Hall Environmental Analysis Laboratory, Inc.	Date Reported: 4/20/2020
CLIENT: Talon Artesia	Client Sample ID: S-3 W SW 0 5'

CLIENT:	Taion Artesia		C	lent Sa	ampie n	<b>D</b> : 5	5 W SW 0.5				
Project:	Hackberry 26 Fed Btty	Collection Date: 4/15/2020 12:03:00 PM									
Lab ID:	2004753-003	Matrix: SOIL		Recei	ved Dat	<b>e:</b> 4/1	6/2020 9:15:00 AM				
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst:	JME			
Diesel R	ange Organics (DRO)	5900	96		mg/Kg	10	4/16/2020 11:00:01 AM	51849			
Motor Oi	l Range Organics (MRO)	2400	480		mg/Kg	10	4/16/2020 11:00:01 AM	51849			
Surr: [	DNOP	0	55.1-146	S	%Rec	10	4/16/2020 11:00:01 AM	51849			
EPA MET	HOD 8015D: GASOLINE RAI	NGE					Analyst:	RAA			
Gasoline	Range Organics (GRO)	46	20		mg/Kg	5	4/16/2020 11:02:52 AM	G68175			
Surr: E	3FB	185	66.6-105	S	%Rec	5	4/16/2020 11:02:52 AM	G68175			

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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 9

	Analytical Report
	Lab Order 2004753
Hall Environmental Analysis Laboratory, Inc.	Date Reported: 4/20/2020
CLIENT: Talon Artesia	Client Sample ID: S-4 N SW 0.5'

Project:	Hackberry 26 Fed Btty		(	Collection Dat	<b>e:</b> 4/	15/2020 12:06:00 PM	
Lab ID:	2004753-004	Matrix: SOIL		<b>Received Dat</b>	16/2020 9:15:00 AM		
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch
	THOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst:	JME
Diesel R	ange Organics (DRO)	300	9.9	mg/Kg	1	4/16/2020 11:24:04 AM	51849
Motor O	il Range Organics (MRO)	260	50	mg/Kg	1	4/16/2020 11:24:04 AM	51849
Surr:	DNOP	92.8	55.1-146	%Rec	1	4/16/2020 11:24:04 AM	51849
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analyst:	RAA
Gasoline	e Range Organics (GRO)	ND	20	mg/Kg	5	4/16/2020 11:26:26 AM	G68175
Surr:	BFB	98.8	66.6-105	%Rec	5	4/16/2020 11:26:26 AM	G68175

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

**Qualifiers:** 

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

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

Page 4 of 9

Analytical	Report
Lab Order 2	004753

Hall Environmental Analysis	Inc.	Date Reported: 4/20/2020						
CLIENT: Talon Artesia		Cli	ent Sample II	<b>D:</b> S-	5 N SW 0.5'			
Project: Hackberry 26 Fed Btty		C	Collection Dat	<b>e:</b> 4/	15/2020 12:08:00 PM			
Lab ID: 2004753-005	Matrix: SOIL		<b>Received</b> Dat	e: 4/	16/2020 9:15:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	800	10	mg/Kg	1	4/16/2020 11:02:47 AM	51849		
Motor Oil Range Organics (MRO)	540	50	mg/Kg	1	4/16/2020 11:02:47 AM	51849		
Surr: DNOP	94.6	55.1-146	%Rec	1	4/16/2020 11:02:47 AM	51849		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	4/16/2020 11:49:59 AM	G68175		
Surr: BFB	97.4	66.6-105	%Rec	5	4/16/2020 11:49:59 AM	G68175		

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

**Qualifiers:** 

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

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

Page 5 of 9

Analytical Report	
Lab Order 2004753	

Hall Environmental Analysis			Date Reported: 4/20/202	20		
CLIENT: Talon Artesia		Cli	ient Sample II	<b>D:</b> S-	6 E SW 0.5'	
Project: Hackberry 26 Fed Btty		(	Collection Dat	<b>e:</b> 4/	15/2020 12:10:00 PM	
Lab ID: 2004753-006	Matrix: SOIL		<b>Received Dat</b>	e: 4/	16/2020 9:15:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	280	10	mg/Kg	1	4/16/2020 12:16:37 PM	51849
Motor Oil Range Organics (MRO)	310	50	mg/Kg	1	4/16/2020 12:16:37 PM	51849
Surr: DNOP	99.3	55.1-146	%Rec	1	4/16/2020 12:16:37 PM	51849
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA
Gasoline Range Organics (GRO)	ND	19	mg/Kg	5	4/16/2020 12:13:44 PM	G68175
Surr: BFB	98.9	66.6-105	%Rec	5	4/16/2020 12:13:44 PM	G68175

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

**Qualifiers:** 

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

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

Page 6 of 9

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

**EPA METHOD 8015D: GASOLINE RANGE** 

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

Analyses

Batch

Analyst: BRM

Analyst: RAA

4/16/2020 10:38:48 AM 51849

4/16/2020 10:38:48 AM 51849

4/16/2020 10:38:48 AM 51849

4/16/2020 12:37:22 PM G68175

4/16/2020 12:37:22 PM G68175

**Analytical Report** 

**DF** Date Analyzed

Hall E	nvironmental Analys	Lab Order <b>2004753</b> Date Reported: <b>4/20/2020</b>	
CLIENT:	Talon Artesia		<b>Client Sample ID:</b> S-7 E SW 0.5'
Project:	Hackberry 26 Fed Btty		Collection Date: 4/15/2020 12:10:00 PM
Lab ID:	2004753-007	Matrix: SOIL	Received Date: 4/16/2020 9:15:00 AM

**RL** Oual Units

S

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

10

10

10

5

5

100

500

20

55.1-146

66.6-105

Result

1500

1200

0

ND

97.9

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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 9

# OC SUMMADY DEDODT

Page	66 of 124
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Hall Enviro	JC SUMMARY REPORT       WO#:         Hall Environmental Analysis Laboratory, Inc.       WO#:									2004753 20-Apr-20	
Client: Project:	Talon Ar Hackber	rtesia ry 26 Fed I	Btty								
Sample ID: MB-51849     SampType: MBLK     TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: PBS		Batc	h ID: <b>51</b>	849	F	RunNo: 6	8131				
Prep Date: 4/16/2	020	Analysis E	Date: 4/	16/2020	S	SeqNo: <b>2</b>	356515	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 Organic	s (MRO)	ND	50								
Surr: DNOP		8.7		10.00		86.8	55.1	146			
Sample ID: LCS-51	849	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS		Batc	h ID: <b>51</b>	849	F	RunNo: 6	8131				
Prep Date: 4/16/2	020	Analysis [	Date: 4/	16/2020	5	SeqNo: 2	356517	Units: <b>mg/K</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	92.5	70	130			
Surr: DNOP		4.3		5.000		85.7	55.1	146			

Sample ID: 2004753-001AMS	SampTyp	e: <b>MS</b>	;	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: S-1 S SW 0.5'	Batch II	D: <b>518</b>	349	F	RunNo: 6	8138				
Prep Date: 4/16/2020	Analysis Date	e: <b>4/</b> '	16/2020	S	SeqNo: 2	356926	Units: mg/K	g		
Analyte	Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	550	9.9	49.70	423.5	261	47.4	136			S
Surr: DNOP	5.6		4.970		113	55.1	146			
Sample ID: 2004753-001AMSI	<b>)</b> SampTyp	e: <b>MS</b>	D	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: S-1 S SW 0.5'	Batch II	D: <b>518</b>	349	F	RunNo: 6	8138				
Prep Date: 4/16/2020	Analysis Date	e: <b>4/</b> ′	16/2020	S	SeqNo: 2	356927	Units: mg/K	g		

110p Date. 4/10/2020	/ maryolo D	uto. –,	10/2020	0		550521	ormo. mg/n	9			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	480	9.9	49.26	423.5	124	47.4	136	13.2	43.4		
Surr: DNOP	5.2		4.926		106	55.1	146	0	0		

# **Qualifiers:**

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

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

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Page	67	of 124
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AKI KEFUKI	WO#:	2004753
nental Analysis Laboratory, Inc.		20-Apr-20

Client: Project:	Talon Ar Hackberr	tesia y 26 Fed B	Btty								
Sample ID:	2.5ug gro Ics	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	n ID: <b>G6</b>	8175	F	RunNo: 6	8175				
Prep Date:		Analysis D	ate: 4/	16/2020	5	SeqNo: 2	357825	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	23	5.0	25.00	0	93.0	80	120			
Surr: BFB		1100		1000		113	66.6	105			S
Sample ID:	2004753-001ams	SampT	ype: MS	6	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	S-1 S SW 0.5'	Batch	n ID: <b>G6</b>	8175	F	RunNo: 6	8175				
Prep Date:		Analysis D	ate: 4/	16/2020	S	SeqNo: 2	357861	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	100	21	104.8	0	98.5	80	120			
Surr: BFB		4600		4191		111	66.6	105			S
Sample ID:	2004753-001amsd	I SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	S-1 S SW 0.5'	Batch	n ID: <b>Ge</b>	8175	F	RunNo: 6	8175				
Prep Date:		Analysis D	ate: 4/	16/2020	S	SeqNo: 2	357862	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	100	21	104.8	0	97.2	80	120	1.31	20	
Surr: BFB		4700		4191		113	66.6	105	0	0	S
Sample ID:	mb1	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	n ID: <b>G</b> 6	8175	F	RunNo: 6	8175				
Prep Date:		Analysis D	ate: 4/	16/2020	S	SeqNo: 2	357870	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		102	66.6	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

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Page	<u>68</u>	0	f 124

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	PNMENTAL SIS ATORY	Hall Environ. TEL: 505-34. Website: w	mental Analysis Labo 4901 Hawki Albuquerque, NM 5-3975 FAX: 505-345 ww.hallenvironmenta	ratory ins NE 87109 <b>Sar</b> 1.com	nple Log-In Check Lis
Client Name:	ALON ARTESIA	Work Order Nu	Imber: 2004753		RcptNo: 1
Received By:	Juan Rojas	4/16/2020 9:15:0	0 AM	Huan Eng	
Completed By:	Leah Baca	4/16/2020 9:19:5	1 AM	Int Bac	4
Reviewed By:	10	4/16/20		Fair ga	-
Chain of Custo	<u>ody</u>				
1. Is Chain of Cus	tody sufficiently complete	?	Yes 🗹	No	Not Present
2. How was the sa	mple delivered?		Courier		
Log In			_	_	
<ol> <li>Was an attempt</li> </ol>	made to cool the sample	s?	Yes ⊻	No 🗌	NA 🗌
4. Were all sample	s received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗌	
5. Sample(s) in pro	oper container(s)?		Yes 🔽	No 🗌	
6. Sufficient sample	e volume for indicated tes	t(s)?	Yes 🗹	No 🗌	
7. Are samples (ex	cept VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌	
8. Was preservative	e added to bottles?		Yes	No 🗹	NA 🗌
9. Received at leas	t 1 vial with headspace <	I/4" for AQ VOA?	Yes	No 🗌	NA 🔽
10. Were any sampl	e containers received bro	ken?	Yes	No 🗹	# of preserved
11. Does paperwork (Note discrepand	match bottle labels? ies on chain of custody)		Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12 unless note
12. Are matrices corr	rectly identified on Chain	of Custody?	Yes 🖌	No 🗌	Adjusted?
13. Is it clear what ar	nalyses were requested?		Yes 🗸	No 🗌	
14. Were all holding (If no, notify cust	times able to be met? omer for authorization.)		Yes 🔽	No 🗌	Checked by: DAD 4/16/2
Special Handling	g (if applicable)				<i>,</i>
15. Was client notified	ed of all discrepancies wit	h this order?	Yes	No 🗌	NA 🗹
Person No	tified:	Dat	e:	na anno factar de la calendaria de la calendaria (	
By Whom:		Via	: 🗌 eMail 🗌 F	Phone 🗌 Fax	In Person
Regarding					
Client Instr	uctions:				NAME OF THE REAL PROPERTY OF THE REAL PROPERTY OF THE REAL PROPERTY.
16. Additional rema	rks:				
17. Cooler Informa	tion				
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	
1 1	Good				
<b>ا</b> ک	.0 0000				

Page 1 of 1

HALL ERVICONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	wkins NE - Albuquerque, NM 87109	-345-3975 Fax 505-345-4107	Analysis Request	¢O≷ (în∉	ZMIZ ₹,₄Oq ∋sdA\t	2270 )2,	r.408 s s (AC ees (Pres	bod ( 310) 310) () () () () () () () () () () () () ()	Albert N 85 N 1 AO AO AO AO AO AO AO AO AO AO AO AO AO	EDB (Md PAHs by RCRA 8 8250 (V 8220 (S 70tal Cc										Please cc the following via email:	r O talon lpe. Com	-contracted data will be clearly notated on the analytical report.
			901 Ha	-el. 505		,	s'83c	25	308\s	əpic	oite	99 1 808										ks:	ns@tal hc/a	. Any sub
			4	Т		(0)	708) s	'an AG	1 \ 7 1 \ 05	(GF BE		RTEX /	>			_	_		_		 -	Remark	Rpor bS;	ossibility.
Turn-Around Time:	Candard Rush Sameday	Project Name:	Hackberry 26 Fed Btty	Project #: / /	701901.088.01	Project Manager:	Clair Como C	CALLO VOLKO	Sampler: 12 Yes DNO	# of Coolers: 2	Cooler Temp(Including CF): 6.940.2 = 1.1	Container Preservative 2004/353	4 22 iar ice ~001	-602	-003	-001	- 005	-006	- 00-			Received by: Via: Date Time R	Received by: Via: Date Time	Marted to other accredited laboratories. This serves as notice of this p
Chain-of-Custody Record	Client: Talon LPE	408 W Texas St	Mailing Address: Artesia, NM 88210		Phone #:	email or Fax#: (575) 746-8905	QA/QC Package:		Accreditation:	EDD (Type)		Date Time Matrix Sample Name	4-15-2011:58 Soil S-1 5 5W 0.5'	[2:0] S-2 S SW 0.5'	12:03 S-3 W S W 0, 5	12:06 S-4 N SW 0.5'	12:08 S-S N SW 0.5	12:10 S-6 E SW 0.5'	1 12:12 S-7 E SW 0.5'			Date; Time: Relinquished by:	Date:/ Time: Relinquished by/	I VIJ V 10 C V V V V V V V V V V V V V V V V V V



May 13, 2020

Chris Jones Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX

RE: Hackberry 26 Battery

OrderNo.: 2005438

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/12/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2005438

Analyst: BRM

10 5/12/2020 11:09:40 AM 52406

10 5/12/2020 11:09:40 AM 52406

5/12/2020 11:09:40 AM 52406

Hall Environmental Analy	nc.	Date Reported: 5/13/2020								
CLIENT: Talon Artesia		Clien	t Sample II	<b>):</b> S-	1 S SW 0.5'					
Project: Hackberry 26 Battery		Col	lection Dat	e: 5/8	8/2020 2:08:00 PM					
Lab ID: 2005438-001	Matrix: MEOH (S	SOIL) Re	eceived Dat	e: 5/	12/2020 9:20:00 AM					
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch				
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	: JMR				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/12/2020 6:34:54 PM	G68840				
Surr: BFB	93.4	70-130	%Rec	1	5/12/2020 6:34:54 PM	G68840				

1000

590

0

100

500

S

55.1-146

mg/Kg

mg/Kg

%Rec

10

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

Qualifiers:

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

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

Diesel Range Organics (DRO)

Surr: DNOP

Motor Oil Range Organics (MRO)

- 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 9

Analytical Report
Lab Order 2005438

Hall Environmental Analy	sis Laboratory, Inc.	Date Reported: 5/13/2020							
CLIENT: Talon Artesia	Client Sample ID: S-2 S SW 0.5'								
Project: Hackberry 26 Battery	Collection Date: 5/8/2020 2:11:00 PM								
Lab ID: 2005438-002	Matrix: MEOH (SOIL) Receive	ed Date: 5/12/2020 9:20:00 AM							
Analyses	Result RL Qual U	Units DF Date Analyzed Batch							

			•				
EPA METHOD 8015D MOD: GASOLINE R	ANGE					Analyst	JMR
Gasoline Range Organics (GRO)	4.0	3.9		mg/Kg	1	5/12/2020 4:40:32 PM	G68840
Surr: BFB	103	70-130		%Rec	1	5/12/2020 4:40:32 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM
Diesel Range Organics (DRO)	12000	490		mg/Kg	50	5/12/2020 11:34:01 AM	52406
Motor Oil Range Organics (MRO)	5900	2500		mg/Kg	50	5/12/2020 11:34:01 AM	52406
Surr: DNOP	0	55.1-146	S	%Rec	50	5/12/2020 11:34:01 AM	52406

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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 9
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Analytical Report
Lab Order 2005438

Hall E	nvironmental Analy	vsis Laboratory, Inc.	Date Reported: 5/13/2020
CLIENT	: Talon Artesia		Client Sample ID: S-3 W SW 0.5'
<b>Project:</b>	Hackberry 26 Battery		Collection Date: 5/8/2020 2:14:00 PM
Lab ID:	2005438-003	Matrix: MEOH (SOIL)	Received Date: 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/12/2020 8:00:56 PM	G68840
Surr: BFB	93.0	70-130	%Rec	1	5/12/2020 8:00:56 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	170	9.8	mg/Kg	1	5/12/2020 11:11:28 AM	52406
Motor Oil Range Organics (MRO)	140	49	mg/Kg	1	5/12/2020 11:11:28 AM	52406
Surr: DNOP	101	55.1-146	%Rec	1	5/12/2020 11:11:28 AM	52406

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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 9

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<b>Analytical Report</b>
Lab Order 2005438

Analyst: BRM

5/12/2020 11:35:49 AM 52406

5/12/2020 11:35:49 AM 52406

5/12/2020 11:35:49 AM 52406

Hall Environmental Anal	ysis Laboratory, I	nc.			Date Reported: 5/13/20	20
CLIENT: Talon Artesia		Clien	t Sample II	<b>):</b> S-	4 N SW 0.5'	
Project: Hackberry 26 Battery		Col	lection Dat	e: 5/8	8/2020 2:18:00 PM	
Lab ID: 2005438-004	Matrix: MEOH (S	SOIL) Re	ceived Dat	e: 5/	12/2020 9:20:00 AM	
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/12/2020 8:29:29 PM	G68840
Surr: BFB	93.5	70-130	%Rec	1	5/12/2020 8:29:29 PM	G68840

18

ND

94.0

9.7

49

55.1-146

mg/Kg

mg/Kg

%Rec

1

1

1

### 11 77 - --.

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

Diesel Range Organics (DRO)

Surr: DNOP

Motor Oil Range Organics (MRO)

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

**Qualifiers:** 

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

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

Page 4 of 9

Surr: DNOP

**Analytical Report** Lab Order 2005438

5/12/2020 11:59:56 AM 52406

Hall Environmental Analysis Laboratory	<b>T, Inc.</b> Date Reported: 5/13/2020
CLIENT: Talon Artesia	Client Sample ID: S-5 N SW 0.5'
Project: Hackberry 26 Battery	Collection Date: 5/8/2020 2:21:00 PM

Lab ID: 2005438-005	Matrix: MEOH	(SOIL)	<b>Received Dat</b>	<b>e:</b> 5/	12/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/12/2020 8:57:57 PM	G68840
Surr: BFB	95.1	70-130	%Rec	1	5/12/2020 8:57:57 PM	G68840
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	120	9.6	mg/Kg	1	5/12/2020 11:59:56 AN	52406
Motor Oil Range Organics (MRO)	130	48	mg/Kg	1	5/12/2020 11:59:56 AN	52406

94.2

55.1-146

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

**Qualifiers:** 

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

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

%Rec

1

RL Reporting Limit Page 5 of 9

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Analytical Report
Lab Order 2005438

Hall E	nvironmental Anal	ysis Laboratory, Inc.	Date Reported: 5/13/2020
CLIENT:	Talon Artesia	(	Client Sample ID: S-6 E SW 0.5'
Project:	Hackberry 26 Battery		Collection Date: 5/8/2020 2:24:00 PM
Lab ID:	2005438-006	Matrix: MEOH (SOIL)	Received Date: 5/12/2020 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RAN	GE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/12/2020 5:37:38 PM	G68840
Surr: BFB	91.9	70-130		%Rec	1	5/12/2020 5:37:38 PM	G68840
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	510	87		mg/Kg	10	5/12/2020 11:58:36 AM	52406
Motor Oil Range Organics (MRO)	770	440		mg/Kg	10	5/12/2020 11:58:36 AM	52406
Surr: DNOP	0	55.1-146	S	%Rec	10	5/12/2020 11:58:36 AM	52406

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

**Qualifiers:** 

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

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Gasoline Range Organics (GRO)

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

Surr: BFB

Surr: DNOP

Analytical Report	
Lab Order 2005438	

Hall E	Environmental Analysis Laboratory, Inc.			Date Reported: 5/13/2020							
CLIENT	: Talon Artesia		С	lient Sa	mple I	<b>D:</b> S-7 E SW 0.5'					
Project:	Hackberry 26 Battery			Collecti	ion Dat	te: 5/8/2020 2:28:00 PM					
Lab ID:	2005438-007	Matrix: MEOH (SOI	L)	Receiv	ed Dat	te: 5/12/2020 9:20:00 AM					
Analyses	5	Result	RL	Qual	Units	DF Date Analyzed	Batch				
EPA ME	THOD 8015D MOD: GASOLII	NE RANGE				Analy	st: <b>JMR</b>				

ND

93.5

140

150

94.1

4.1

9.8

49

55.1-146

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

5/12/2020 9:26:52 PM

5/12/2020 9:26:52 PM

5/12/2020 12:24:11 PM 52406

5/12/2020 12:24:11 PM 52406

5/12/2020 12:24:11 PM 52406

G68840

G68840

Analyst: BRM

Page 7 of 9

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

**Qualifiers:** 

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

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



May 28, 2020

Chris Jones Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX

RE: Hackberry 1H Spill

OrderNo.: 2005968

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 16 sample(s) on 5/22/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Envir	conmental Analysis	Laboratory,	, Inc.			]	Analytical Report Lab Order: 2005968 Date Reported: 5/2	: 8/202(	)
CLIENT: Project:	Talon Artesia Hackberry 1H Spill				I	.ab (	<b>Drder:</b> 2005	968	
Lab ID:	2005968-001		C	ollecti	on Date	<b>e:</b> 5/2	20/2020		
<b>Client Sample</b>	<b>ID:</b> TT-1 1'				Matrix	s: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
	0 8015D MOD: GASOLINE R	ANGE					An	alyst:	DJF
Gasoline Rang	ge Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 4:32:41	AM	52662
Surr: BFB		104	70-130		%Rec	1	5/25/2020 4:32:41	AM	52662
EPA METHOD	8015M/D: DIESEL RANGE	ORGANICS					An	alyst:	CLP
Diesel Range	Organics (DRO)	30	9.9		mg/Kg	1	5/27/2020 10:20:3	8 PM	52675
Motor Oil Rang	ge Organics (MRO)	ND	49		mg/Kg	1	5/27/2020 10:20:3	8 PM	52675
Surr: DNOP	5	143	55.1-146		%Rec	1	5/27/2020 10:20:3	8 PM	52675
Lab ID:	2005968-002		C	ollecti	on Date	<b>::</b> 5/2	20/2020		
<b>Client Sample</b>	<b>ID:</b> TT-1 2'				Matrix	s: so	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD	0 8015D MOD: GASOLINE R	ANGE					An	alyst:	DJF
Gasoline Rang	ge Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 7:56:42	2 AM	52662
Surr: BFB		107	70-130		%Rec	1	5/25/2020 7:56:42	2 AM	52662
	0 8015M/D: DIESEL RANGE	ORGANICS					An	alvst:	CLP
Diesel Range	Organics (DRO)	ND	9.7		ma/Ka	1	5/27/2020 10:45:1	0 PM	52675
Motor Oil Rand	ge Organics (MRO)	ND	48		mg/Kg	1	5/27/2020 10:45:1	0 PM	52675
Surr: DNOP		155	55.1-146	S	%Rec	1	5/27/2020 10:45:1	0 PM	52675
Lab ID:	2005968-003		C	ollecti	on Date	<b>:</b> 5/2	20/2020		
<b>Client Sample</b>	<b>ID:</b> TT-1 3'				Matrix	s: so	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD	0 8015D MOD: GASOLINE R	ANGE					Ar	alyst:	JMR
Gasoline Rang	ge Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 2:24:36	i PM	52662
Surr: BFB	、 /	105	70-130		%Rec	1	5/25/2020 2:24:36	PM	52662
	0 8015M/D: DIESEL RANGE	ORGANICS					An	alyst:	CLP
Diesel Range	Organics (DRO)	ND	10		mg/Kg	1	5/27/2020 11:09:5	69 PM	52675
Motor Oil Rang	ge Organics (MRO)	ND	50		mg/Kg	1	5/27/2020 11:09:5	9 PM	52675
Surr: DNOP	)	121	55.1-146		%Rec	1	5/27/2020 11:09:5	9 PM	52675

Qualifiers:

Analyte detected in the associated Method Blank в

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected below quantitation limits J Sample pH Not In Range

Р RL Reporting Limit

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Hall Envir	onmental Analysis	Laboratory,	, Inc.			]	Analytical Report Lab Order: 2005968 Date Reported: 5/28/	/2020	
CLIENT: Project:	Talon Artesia Hackberry 1H Spill				I	.ab (	<b>Drder:</b> 20059	68	
Lab ID:	2005968-004		C	ollecti	ion Date	: 5/	20/2020		
Client Sample	<b>ID:</b> TT-1 4'				Matrix	: S(	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Bate	ch ID
EPA METHOD	8015D MOD: GASOLINE R	ANGE					Ana	ılyst: <b>.</b>	JMR
Gasoline Rang	je Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 2:54:24	PM {	52662
Surr: BFB		107	70-130		%Rec	1	5/25/2020 2:54:24 I	PM 5	52662
EPA METHOD	8015M/D: DIESEL RANGE	ORGANICS					Ana	lyst: (	CLP
Diesel Range (	Organics (DRO)	53	9.2		mg/Kg	1	5/27/2020 11:34:50	PM {	52675
Motor Oil Rang	ge Organics (MRO)	ND	46		mg/Kg	1	5/27/2020 11:34:50	PM {	52675
Surr: DNOP		152	55.1-146	S	%Rec	1	5/27/2020 11:34:50	PM 5	52675
Lab ID:	2005968-005		C	ollecti	ion Date	: 5/	20/2020		
Client Sample	<b>ID:</b> TT-2 1'				Matrix	s: so	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Bate	ch ID
EPA METHOD	8015D MOD: GASOLINE R	ANGE					Ana	lyst: 、	JMR
Gasoline Rang	e Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 3:24:17 I	PM {	52662
Surr: BFB		107	70-130		%Rec	1	5/25/2020 3:24:17 I	PM (	52662
EPA METHOD	8015M/D: DIESEL RANGE	ORGANICS					Ana	lyst: (	CLP
Diesel Range (	Organics (DRO)	ND	9.4		mg/Kg	1	5/27/2020 11:59:38	PM {	52675
Motor Oil Rang	ge Organics (MRO)	ND	47		mg/Kg	1	5/27/2020 11:59:38	PM {	52675
Surr: DNOP		164	55.1-146	S	%Rec	1	5/27/2020 11:59:38	PM 5	52675
Lab ID:	2005968-006		C	ollecti	ion Date	: 5/	20/2020		
Client Sample	<b>ID:</b> TT-2 2'				Matrix	s: so	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Bate	ch ID
EPA METHOD	8015D MOD: GASOLINE R	ANGE					Ana	lyst: 、	JMR
Gasoline Rang	e Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 3:53:47	PM {	52662
Surr: BFB		102	70-130		%Rec	1	5/25/2020 3:53:47	PM {	52662
EPA METHOD	8015M/D: DIESEL RANGE	ORGANICS					Ana	ılyst: (	CLP
Diesel Range (	Organics (DRO)	ND	8.9		mg/Kg	1	5/28/2020 12:24:12	AM :	52675
Motor Oil Rang	ge Organics (MRO)	ND	45		mg/Kg	1	5/28/2020 12:24:12	AM {	52675
Surr: DNOP		143	55.1-146		%Rec	1	5/28/2020 12:24:12	AM {	52675

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix s

Analyte detected in the associated Method Blank в Е

Value above quantitation range

Analyte detected below quantitation limits J Sample pH Not In Range

Р RL Reporting Limit

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Hall Envir	conmental Analysis	Laboratory,	Inc.			I I	Analytical Report Lab Order: 2005968 Date Reported: 5/28	i ; 8/202(	0
CLIENT: Project:	Talon Artesia Hackberry 1H Spill				I	.ab (	<b>)rder:</b> 2005	968	
Lab ID:	2005968-007		C	ollecti	ion Date	: 5/2	20/2020		
<b>Client Sample</b>	<b>ID:</b> TT-2 3'				Matrix	s: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD	0 8015D MOD: GASOLINE R	ANGE					An	alyst:	JMR
Gasoline Rang	ge Organics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 4:23:18	PM	52662
Surr: BFB		104	70-130		%Rec	1	5/25/2020 4:23:18	PM	52662
EPA METHOD	0 8015M/D: DIESEL RANGE	ORGANICS					An	alyst:	CLP
Diesel Range	Organics (DRO)	ND	9.7		mg/Kg	1	5/28/2020 12:48:4	9 AM	52675
Motor Oil Rang	ge Organics (MRO)	ND	48		mg/Kg	1	5/28/2020 12:48:4	9 AM	52675
Surr: DNOF	5	151	55.1-146	S	%Rec	1	5/28/2020 12:48:4	9 AM	52675
Lab ID:	2005968-008		C	ollecti	ion Date	e: 5/2	20/2020		
<b>Client Sample</b>	<b>ID:</b> TT-2 4'				Matrix	s: sc	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD	0 8015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Rano	ge Organics (GRO)	ND	5.0		ma/Ka	1	5/25/2020 4:52:45	5 PM	52662
Surr: BFB	g · g-···· ( - · · · )	98.8	70-130		%Rec	1	5/25/2020 4:52:45	PM	52662
	0 8015M/D: DIESEL RANGE	ORGANICS					An	alvst	CLP
Diesel Range	Organics (DRO)	ND	8.6		ma/Ka	1	5/28/2020 1:13:28	3 AM	52675
Motor Oil Ran	ge Organics (MRO)	ND	43		mg/Kg	1	5/28/2020 1:13:28	3 AM	52675
Surr: DNOF		128	55.1-146		%Rec	1	5/28/2020 1:13:28	AM	52675
Lab ID:	2005968-009		C	ollecti	ion Date	: 5/2	20/2020		
<b>Client Sample</b>	<b>ID:</b> TT-3 1'				Matrix	s: sc	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD	0 8015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Rang	ge Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 5:22:08	B PM	52662
Surr: BFB	,	103	70-130		%Rec	1	5/25/2020 5:22:08	PM	52662
EPA METHOD	0 8015M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range	Organics (DRO)	ND	9.6		mg/Kg	1	5/28/2020 1:38:23	AM	52675
Motor Oil Ran	ge Organics (MRO)	ND	48		mg/Kg	1	5/28/2020 1:38:23	AM	52675
Surr: DNOF	, ,	155	55.1-146	S	%Rec	1	5/28/2020 1:38:23	S AM	52675

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

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

Analyte detected below quantitation limits J

Sample pH Not In Range Р RL Reporting Limit

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Hall Enviror	nmental Analysis	Laboratory,	, Inc.			]	Analytical Report Lab Order: 2005968 Date Reported: 5/28	3/202(	0
CLIENT: Project:	Talon Artesia Hackberry 1H Spill				I	.ab (	<b>Order:</b> 20059	968	
Lab ID:	2005968-010		C	ollect	ion Date	: 5/	20/2020		
Client Sample ID:	<b>:</b> TT-3 2'				Matrix	s: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 80	015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Range C	Drganics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 5:51:25	PM	52662
Surr: BFB		101	70-130		%Rec	1	5/25/2020 5:51:25	PM	52662
EPA METHOD 80	)15M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range Org	anics (DRO)	ND	10		mg/Kg	1	5/28/2020 2:03:06	AM	52675
Motor Oil Range (	Drganics (MRO)	ND	51		mg/Kg	1	5/28/2020 2:03:06	AM	52675
Surr: DNOP		157	55.1-146	S	%Rec	1	5/28/2020 2:03:06	AM	52675
Lab ID:	2005968-011		C	ollect	ion Date	: 5/	20/2020		
Client Sample ID:	<b>:</b> TT-6 1'				Matrix	s: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 80	015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Range C	Drganics (GRO)	ND	4.9		mg/Kg	1	5/25/2020 6:20:38	PM	52662
Surr: BFB		104	70-130		%Rec	1	5/25/2020 6:20:38	PM	52662
EPA METHOD 80	015M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range Org	anics (DRO)	ND	9.4		mg/Kg	1	5/28/2020 2:27:58	AM	52675
Motor Oil Range 0	Drganics (MRO)	ND	47		mg/Kg	1	5/28/2020 2:27:58	AM	52675
Surr: DNOP		142	55.1-146		%Rec	1	5/28/2020 2:27:58	AM	52675
Lab ID:	2005968-012		C	ollect	ion Date	: 5/	20/2020		
Client Sample ID	<b>:</b> TT-6 2'				Matrix	s: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 80	)15D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Range C	Drganics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 6:49:49	PM	52662
Surr: BFB	- · · /	106	70-130		%Rec	1	5/25/2020 6:49:49	PM	52662
EPA METHOD 80	)15M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range Org	anics (DRO)	ND	9.4		mg/Kg	1	5/28/2020 2:52:39	AM	52675
Motor Oil Range 0	Organics (MRO)	ND	47		mg/Kg	1	5/28/2020 2:52:39	AM	52675
Surr: DNOP		150	55.1-146	S	%Rec	1	5/28/2020 2:52:39	AM	52675

Qualifiers:

Value exceeds Maximum Contaminant Level. в

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix s

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

Analyte detected below quantitation limits J

Sample pH Not In Range

Р RL Reporting Limit

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Hall Enviro	nmental Analysis	Laboratory,	, Inc.			1 ] ]	Analytical Report Lab Order: 2005968 Date Reported: 5/28	: 3/202'	0
CLIENT:	Talon Artesia				I	Lab (	<b>Order:</b> 2005	968	
Project:	Hackberry 1H Spill								
Lab ID:	2005968-013		C	Collect	ion Date	e: 5/	20/2020		
Client Sample ID	<b>:</b> TT-6 3'				Matrix	s: SC	JIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 8	015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 7:19:43	PM	52662
Surr: BFB		100	70-130		%Rec	1	5/25/2020 7:19:43	PM	52662
EPA METHOD 8	015M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range Org	ganics (DRO)	ND	9.9		mg/Kg	1	5/28/2020 3:17:22	AM	52675
Motor Oil Range	Organics (MRO)	ND	49		mg/Kg	1	5/28/2020 3:17:22	AM	52675
Surr: DNOP		143	55.1-146		%Rec	1	5/28/2020 3:17:22	AM	52675
Lab ID:	2005968-014		C	Collect	ion Date	e: 5/	20/2020		
Client Sample ID	<b>:</b> TT-6 4'				Matrix	s: SC	JIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 8	015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 7:49:01	PM	52662
Surr: BFB	0 ( )	109	70-130		%Rec	1	5/25/2020 7:49:01	PM	52662
EPA METHOD 8	015M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range Or	ganics (DRO)	ND	10		ma/Ka	1	5/28/2020 3:42:03	AM	52675
Motor Oil Range	Organics (MRO)	ND	51		mg/Kg	1	5/28/2020 3:42:03	AM	52675
Surr: DNOP		147	55.1-146	S	%Rec	1	5/28/2020 3:42:03	AM	52675
Lab ID:	2005968-015		C	Collect	ion Date	e: 5/	20/2020		
Client Sample ID	<b>:</b> TT-7 1'				Matrix	s: SC	JIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 8	015D MOD: GASOLINE R	ANGE					An	alyst	JMR
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	5/25/2020 8:18:15	PM	52662
Surr: BFB	- 、 /	109	70-130		%Rec	1	5/25/2020 8:18:15	PM	52662
EPA METHOD 8	015M/D: DIESEL RANGE	ORGANICS					An	alyst	CLP
Diesel Range Or	ganics (DRO)	ND	9.7		mg/Kg	1	5/28/2020 4:06:49	AM	52675
Motor Oil Range	Organics (MRO)	ND	49		mg/Kg	1	5/28/2020 4:06:49	AM	52675
Surr: DNOP		155	55.1-146	s	%Rec	1	5/28/2020 4.06.49	AM	52675

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

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

Analyte detected below quantitation limits J

Sample pH Not In Range Р RL Reporting Limit

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Hall Envi	ronmental Analysis I	Laboratory,	Inc.		]	Analytical Report Lab Order: 2005968 Date Reported: 5/28	: 8/202(	0
CLIENT: Project:	Talon Artesia Hackberry 1H Spill			L	ab (	<b>)rder:</b> 2005	968	
Lab ID:	2005968-016		Colle	ection Date	: 5/	20/2020		
<b>Client Sample</b>	e ID: TT-7 2'			Matrix	: SC	DIL		
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Ba	atch ID
EPA METHO	D 8015D MOD: GASOLINE RA	NGE				An	alyst:	JMR
Gasoline Ran	ige Organics (GRO)	ND	4.9	mg/Kg	1	5/25/2020 8:47:56	PM	52662
Surr: BFB		105	70-130	%Rec	1	5/25/2020 8:47:56	PM	52662
EPA METHO	D 8015M/D: DIESEL RANGE C	RGANICS				An	alyst	CLP
Diesel Range	Organics (DRO)	ND	9.5	mg/Kg	1	5/28/2020 4:31:28	AM	52675
Motor Oil Rar	nge Organics (MRO)	ND	48	mg/Kg	1	5/28/2020 4:31:28	AM	52675
Surr: DNO	P	126	55.1-146	%Rec	1	5/28/2020 4:31:28	AM	52675

Qualifiers:

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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

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. Released to Imaging: 1/19/2021 11:17:01 AM

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Talon Project: Hackt	Artesia perry 1H Spill	l								
Sample ID: MB-52675	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batcl	h ID: 52	675	F	anNo: 69	9153				
Prep Date: 5/26/2020	Analysis E	Date: <b>5/</b>	27/2020	S	eqNo: 2	397939	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		127	55.1	146			
Sample ID: LCS-52675	SampT	Type: LC	s	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 52	675	F	anNo: 69	9153				
Prep Date: 5/26/2020	Analysis [	Date: <b>5/</b>	27/2020	S	eqNo: 2	397940	Units: mg/k	٢g		
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	5.8		5.000		116	55.1	146			

Qualifiers:

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

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2005968

28-May-20

WO#:

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2005968

28-May-20

Sample ID: mb-52662         Samp Type:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         PBS         Batch ID:         52662         RunNo:         69123           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.0         104         70         130             Sample ID:         Ics-52662         SampType:         ICS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         ICSS         Batch ID:         52662         RunNo:         69123               Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         22         5.0         25.0         8eqNo:         2395272         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit	Project: Hackbe	erry 1H Spill		
Client ID:       PBS       Batch ID:       52662       RunNo:       69123         Prep Date:       5/22/2020       Analysis Date:       5/25/2020       SeqNo:       2395271       Units:       mg/Kg         Analyte       Result       POL       SPK value       Vanue       No       0       130       Vanue       SPK value	Sample ID: mb-52662	SampType: MBLK	TestCode: EPA Method	8015D Mod: Gasoline Range
Prep Date:         5/22/2020         Analysis Date:         5/25/2020         Seq No:         2395271         Units:         mg/kg           Analyte         Result         PQL         SPK rel/ue         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.0         500.0         104         70         130             Sum BIP ID:         Lcs-52662         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Prep Date:         5/22/2020         Analysis Date:         5/25/2020         Seq No:         2395272         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         86.2         70         130           Seq No:         2396041         Units:         mg/kg           Gasoline Range Organics (GRO)         20         5.0         2.4.80         0         8015         70         130	Client ID: PBS	Batch ID: 52662	RunNo: 69123	
Analyte         Result         PQL         SPK Ref Value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.0         104         70         130	Prep Date: 5/22/2020	Analysis Date: 5/25/2020	SeqNo: 2395271	Units: mg/Kg
Gasoline Range Organics (GRO)         ND         5.0           Surr: BFB         520         500.0         104         70         130           Sample ID:         Ics-52662         SampType:         LC         TestCode:         EPA Method         8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         52662         RunNo:         69123         Units:         mg/kg           Analyte         Result         PQL         SPK Value         SPK Ref Val         %REC         LouLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         22         500         0         462.2         70         130             Sample ID:         2005968-002ams         SampType:         MS         TestCode:         EPA Method         8015D Mod:         Gasoline Range         Qual           Gasoline Range Organics (GRO)         22         500         0         802         70         130             Client ID:         TT-1 2'         Batch ID:         52662         RunNo:         69137           Qual           Gasoline Range Organics (GRO)         20         5.0	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Sample ID:       Less       SampType:       LCS       Batch ID:       52662       RunNo:       69123         Prep Date:       5/22/2020       Analysis Date:       5/25/2020       SeqNo:       2395272       Units:       mg/Kg         Analyte       Result       POL       SPK value       SPK Value       SPK Ref Val       %REC       LowLinit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       22       5.0       25.00       0       86.2       70       130       500       101       70       130       500       101       70       130       500       101       70       130       500       101       70       130       500       101       70       130       500       101       70       130       500       101       70       130       500       101       70       130       500       101       101       101       101       101       70       130       500       100       101       101       101       101       101       500       100       101       101       101       101       101       101       101       101       101       101       100       100	Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 520 500.0	104 70	130
Client ID:       LCSS       Batch ID:       52662       RunNo:       69123         Prep Date:       5/2//2020       Analysis Date:       5/25//2020       SeqNo:       2395272       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       86.2       70       130         Surr: BFB       500       500       0       86.2       70       130	Sample ID: Ics-52662	SampType: LCS	TestCode: EPA Method	8015D Mod: Gasoline Range
Prep Date:5/22/2020Analysis Date:5/25/2020SeqNo:2395272Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)225.025.0086.270130130110130Surr: BFB500500.010170130130110130110110130110 </td <td>Client ID: LCSS</td> <td>Batch ID: 52662</td> <td>RunNo: 69123</td> <td></td>	Client ID: LCSS	Batch ID: 52662	RunNo: 69123	
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         22         5.0         25.00         0         86.2         70         130           Surr: BFB         500         500.0         101         70         130	Prep Date: 5/22/2020	Analysis Date: 5/25/2020	SeqNo: 2395272	Units: mg/Kg
Gasoline Range Organics (GRO)         22         5.0         25.00         0         86.2         70         130           Surr: BFB         500         500.0         101         70         130           Sample ID: 2005968-002ams         SampType: MS         TestCode: EPA Method 8015D Mod: Gasoline Range           Client ID: TT-1 2'         Batch ID: 52662         RunNo: 69137           Prep Date:         5/22/2020         Analysis Date:         5/25/2020         SeqNo: 2396041         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         20         5.0         24.80         0         80.2         70         130             Surr: BFB         520         496.0         105         70         130            Qual           Gasoline Range Organics (GRO)         20         5.0         24.80         0         80.2         70         130           Qual           Gasoline Range Organics (GRO)         Analysis Date:         5/25/2020         SeqNo: 2396042         Units: mg/Kg <td>Analyte</td> <td>Result PQL SPK value</td> <td>SPK Ref Val %REC LowLimit</td> <td>HighLimit %RPD RPDLimit Qual</td>	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr. BFB         500         500.0         101         70         130           Sample ID:         2005968-002ams         SampType: MS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         TT-1 2'         Batch ID:         52662         RunNo:         69137           Prep Date:         5/22/2020         Analysis Date:         5/25/2020         SeqNo:         2396041         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         20         5.0         24.80         0         80.2         70         130                Qual                 Qual                                   <	Gasoline Range Organics (GRO)	22 5.0 25.00	0 86.2 70	130
Sample ID: 2005968-002ams Client ID:Samp Type: MSTestCode:EP A Method8015DMod:Gasoline RangeClient ID:TT-1 2'BatchID:5262RunNo:69137Prep Date:5/22/2020Analysis Date:5/25/2020SeqNo:2396041Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)205.024.80080.270130Surr: BFB520*496.010570130 </td <td>Surr: BFB</td> <td>500 500.0</td> <td>101 70</td> <td>130</td>	Surr: BFB	500 500.0	101 70	130
Client ID:TT-1 2'Batch ID:52662RunNo:69137Prep Date:5/22/2020Analysis Date: $5/25/2020$ SeqNo:2396041Units:mg/kgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)205.024.80080.270130	Sample ID: 2005968-002am	ns SampType: MS	TestCode: EPA Method	8015D Mod: Gasoline Range
Prep Date:5/22/2020Analysis Date:5/25/2020SeqNo:2396041Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)2052024.80080.270130Surr: BFB520496.010570130 </td <td>Client ID: TT-1 2'</td> <td>Batch ID: 52662</td> <td>RunNo: 69137</td> <td></td>	Client ID: TT-1 2'	Batch ID: 52662	RunNo: 69137	
Analyte         Result         PQL         SPK value         SPK ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         20         5.0         24.80         0         80.2         70         130	Prep Date: 5/22/2020	Analysis Date: 5/25/2020	SeqNo: 2396041	Units: mg/Kg
Gasoline Range Organics (GRO)       20       5.0       24.80       0       80.2       70       130         Surr: BFB       520       496.0       105       70       130         Sample ID: 2005968-002amsd       SampType: MSD       TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:       TT-1 2'       Batch ID: 52662       RunNo: 69137         Prep Date:       5/22/2020       Analysis Date:       5/25/2020       SeqNo: 2396042       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       18       4.8       24.13       0       76.0       70       130       8.11       20         Surr: BFB       490       482.6       102       70       130       0       0       0         Sample ID:       mb-52673       SampType:       MBLK       TestCode:       EPA Method 8015D Mod: Gasoline Range       Client ID:       PBS       Batch ID:       52673       RunNo: 69151         Prep Date:       5/25/2020       Analysis Date:       5/27/2020       SeqNo:       2397031       Units: %Rec         Analyte	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB         520         496.0         105         70         130           Sample ID:         2005968-002amsd         SampType:         MSD         TestCode:         EPA Method         8015D Mod:         Gasoline Range           Client ID:         TT-1 2'         Batch ID:         52662         RunNo:         69137           Prep Date:         5/22/2020         Analysis Date:         5/25/2020         SeqNo:         2396042         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         18         4.8         24.13         0         76.0         70         130         8.11         20           Surr: BFB         490         482.6         102         70         130         0         0         0           Sample ID:         mb-52673         SampType:         MBLK         TestCode:         EPA Method         8015D Mod:         Gasoline Range           Client ID:         PBS         Batch ID:         52673         RunNo:         69151         Prep Date:         5/25/2020         Analysis Date:         5/27/20	Gasoline Range Organics (GRO)	20 5.0 24.80	0 80.2 70	130
Sample ID:2005968-002amsdSampTye:MSDTestCode:EPA Method 8015D Mod:Gasoline RangeClient ID:TT-1 2'Batch ID: $52662$ RunNo: $69137$ Prep Date: $5/22/2020$ Analysis Date: $5/25/2020$ SeqNo: $2396042$ Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)184.824.13076.0701308.1120Surr: BFB490482.6102701300000Sample ID:mb-52673SampTye:MBLKTestCode:EPA Method SU5D Mod:Surr:BreyNClient ID:PBSBatch ID: $5/27/2020$ SeqNo: $2397031$ Units:WREyVVPrep Date: $5/25/2020$ Analysis Date: $5/27/2020$ SeqNo: $2397031$ Units:WREyQualAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Surr: BFB	520 496.0	105 70	130
Client ID:TT-1 2'Batch ID:52662RunNo:69137Prep Date:5/22/2020Analysis Date: $5/25/2020$ SeqNo: $2396042$ Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)184.824.13076.0701308.1120Surr: BFB490482.610270130000Sample ID:mb-52673SampType:MBLKTestCode:EPA Method Starbine RangeResult00Sample ID:PBSBatch ID:52673RunNo:69151Vints:KetchVints:KetchPrep Date:5/25/2020Analysis Date:5/27/2020SeqNo:2397031Units:%RPDRPDLimitQualAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Sample ID: 2005968-002am	nsd SampType: MSD	TestCode: EPA Method	8015D Mod: Gasoline Range
Prep Date:         5/22/2020         SeqNo:         2396042         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         18         4.8         24.13         0         76.0         70         130         8.11         20           Surr: BFB         490         482.6         102         70         130         0 <t< td=""><td>Client ID: TT-1 2'</td><td>Batch ID: 52662</td><td>RunNo: 69137</td><td></td></t<>	Client ID: TT-1 2'	Batch ID: 52662	RunNo: 69137	
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         18         4.8         24.13         0         76.0         70         130         8.11         20           Surr: BFB         490         482.6         102         70         130         0         0         0           Sample ID: mb-52673         SampType: MBLK         TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID: PBS         Batch ID: 52673         RunNo: 69151         Vertical State         Vertical State <th>Prep Date: 5/22/2020</th> <th>Analysis Date: 5/25/2020</th> <th>SeqNo: 2396042</th> <th>Units: <b>mg/Kg</b></th>	Prep Date: 5/22/2020	Analysis Date: 5/25/2020	SeqNo: 2396042	Units: <b>mg/Kg</b>
Gasoline Range Organics (GRO)         18         4.8         24.13         0         76.0         70         130         8.11         20           Surr: BFB         490         482.6         102         70         130         0         0         0           Sample ID: mb-52673         SampType: MBLK         TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID: PBS         Batch ID: 52673         RunNo: 69151         Ferep Date: 5/25/2020         Analysis Date: 5/27/2020         SeqNo: 2397031         Units: %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB490482.61027013000Sample ID: mb-52673SampType: MBLKTestCode: EPA Method 8015D Mod: Gasoline RangeClient ID:PBSBatch ID:52673RunNo:69151Prep Date:5/25/2020Analysis Date:5/27/2020SeqNo:2397031Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual	Gasoline Range Organics (GRO)	18 4.8 24.13	0 76.0 70	130 8.11 20
Sample ID:         mb-52673         SampType:         MBLK         TestCode:         EPA Method         Standle         Range           Client ID:         PBS         Batch ID:         52673         RunNo:         69151           Prep Date:         5/25/2020         Analysis Date:         5/27/2020         SeqNo:         2397031         Units:         %Rec           Analyte         Result         PQL         SPK value         SPK Val         %REC         LowLimit         MighLimit         %RPD         RPDLimit         Qual	Surr: BFB	490 482.6	102 70	130 0 0
Client ID:         PBS         Batch ID:         52673         RunNo:         69151           Prep Date:         5/25/2020         Analysis Date:         5/27/2020         SeqNo:         2397031         Units:         %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Sample ID: mb-52673	SampType: MBLK	TestCode: EPA Method	8015D Mod: Gasoline Range
Prep Date:       5/25/2020       Analysis Date:       5/27/2020       SeqNo:       2397031       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Client ID: PBS	Batch ID: 52673	RunNo: 69151	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: 5/25/2020	Analysis Date: 5/27/2020	SeqNo: 2397031	Units: %Rec
	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB         490         500.0         97.2         70         130	Surr: BFB	490 500.0	97.2 70	130
Sample ID: Ics-52673     SampType: LCS     TestCode: EPA Method 8015D Mod: Gasoline Range	Sample ID: Ics-52673	SampType: LCS	TestCode: EPA Method	8015D Mod: Gasoline Range
Client ID:         LCSS         Batch ID:         52673         RunNo:         69151	Client ID: LCSS	Batch ID: 52673	RunNo: 69151	
	Prep Date: 5/25/2020	Analysis Date: 5/27/2020	SeqNo: 2397032	Units: %Rec
Prep Date: 5/25/2020 Analysis Date: 5/27/2020 SeqNo: 2397032 Units: %Rec	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Prep Date:       5/25/2020       Analysis Date:       5/27/2020       SeqNo:       2397032       Units:       %Rec         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Surr: BFB	490 500.0	97.1 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

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	ONMENTAL /SIS Ratory	Hall Environmen A TEL: 505-345-39 Website: www.	tal Analysis Laborat 4901 Hawkins Ilbuquerque, NM 874 975 FAX: 505-345-44 hallenvironmental.c	ory NE 109 <b>Sam</b> 107 com	ple Log-In Check List
Client Name:	TALON ARTESIA	Work Order Numb	er: 2005968		RcptNo: 1
Received By:	Isaiah Ortiz	5/21/2020 9:00:00 A	M	I_O	$\prec$
Completed By: Reviewed By:	Isaiah Ortiz	5/22/2020 11:34:37 S/240	АМ	ILO	~
Chain of Cus	<u>tody</u>		_	_	_
1. Is Chain of Cu	ustody complete?		Yes 🖌	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In 3. Was an attern	pt made to cool the san	nples?	Yes 🔽	No 🗌	NA 🗌
4. Were all samp	bles received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sam	ple volume for indicated	test(s)?	Yes 🗹	No 🗌	
7. Are samples (	except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌	
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗌
9. Received at le	ast 1 vial with headspac	ce <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
10. Were any san	nple containers received	broken?	Yes	No 🗹	# of procented
11. Does paperwo	ork match bottle labels?	dv)	Yes 🗹	No 🗌	for pH: (<2 or >12 unless noted)
12. Are matrices of	correctly identified on Ch	nain of Custody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what	t analyses were request	ed?	Yes 🗹	No 🗌	
14. Were all holdi (If no, notify c	ng times able to be met ustomer for authorization	? n.)	Yes 🗹	No 🗌	Checked by: <u>JR</u> 5 122 12C
Special Handl	ing (if applicable)				
15. Was client no	tified of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹
Person	Notified:	Date:	<u> </u>		
By Who	om:	Via:	eMail Pl	hone 🗌 Fax	In Person
Regard	ing:				
Client I	nstructions:				
16. Additional re	marks:				
17. Cooler Infor	rmation				
Cooler No	Temp °C Conditio	on Seal Intact Seal No	Seal Date	Signed By	
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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Ta Project: H	alon Artesia ackberry 26 Batte	ery									
Sample ID: LCS-5240	6 Samp	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics		$\neg$
Client ID: LCSS	Bato	ch ID: 52	406	F	RunNo: 6	8810					
Prep Date: 5/12/202	0 Analysis	Date: 5/	12/2020	S	SeqNo: 2	381390	Units: <b>mg/#</b>	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO	D) 49	10	50.00	0	98.9	70	130				
Surr: DNOP	4.0		5.000		79.8	55.1	146				
Sample ID: MB-52406	Samp	Туре: М	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Bato	ch ID: 52	406	F	RunNo: 6	8810					
Prep Date: 5/12/202	0 Analysis	Date: <b>5/</b>	12/2020	S	SeqNo: 2	381391	Units: <b>mg/#</b>	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO	D) ND	10									
Motor Oil Range Organics (N	(RO) ND	50									
Surr: DNOP	9.4		10.00		94.4	55.1	146				

Qualifiers:

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

2005438

13-May-20

WO#:

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2005438
Inc.		13-May-20

Client:	Talon Ar	tesia									
Project:	Hackberr	y 26 Batte	ery								
Sample ID:	mb1	SampT	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batcl	h ID: <b>G</b>	68840	F	RunNo: 6	8840				
Prep Date:		Analysis E	Date: 5	/12/2020	S	SeqNo: 2	382824	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		460		500.0		92.4	70	130			
Sample ID:	2.5ug gro lcs	SampT	Гуре: <b>L(</b>	cs	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batc	h ID: G	68840	F	RunNo: 6	8840				
Prep Date:		Analysis E	Date: 5	/12/2020	S	SeqNo: 2	382825	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	21	5.0	25.00	0	84.8	70	130			
Surr: BFB		480		500.0		95.5	70	130			
Sample ID:	2005438-001ams	SampT	Гуре: М	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	S-1 S SW 0.5'	Batc	h ID: <b>G</b>	68840	F	RunNo: 6	8840				
Prep Date:		Analysis E	Date: 5	/12/2020	S	SeqNo: 2	382831	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	4.7	23.32	0	102	70	130			
Surr: BFB		440		466.4		94.5	70	130			
Sample ID:	2005438-001amsc	I Samp1	Гуре: М	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	S-1 S SW 0.5'	Batc	h ID: G	68840	F	RunNo: 6	8840				
Prep Date:		Analysis E	Date: 5	/12/2020	S	SeqNo: 2	382832	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	4.7	23.32	0	97.8	70	130	4.40	20	
Surr: BFB		450		466.4		95.8	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 9 of 9

Page	<i>92</i>	of	124
		~	

	DNMENTAL SIS Atory	A TEL: 505-345-39 Website: www.	4901 Haw Ibuquerque, Ni 975 FAX: 505-3 hallenvironme	vkins NE M 87109 <b>Sar</b> 45-4107 ntal.com	nple Log-In Ch	eck List
Client Name:	TALON ARTESIA	Work Order Numb	er: 2005438		RcptNo: 1	
Received By:	Isaiah Ortiz	5/12/2020 9:20:00 A	м	ILC	2~	
Completed By:	Desiree Dominguez	5/12/2020 9:22:42 A	M	TPS		
Reviewed By:	JR 5/12/20					
Chain of Custo	<u>ody</u>					
1. Is Chain of Cus	tody complete?		Yes 🖌	No 🗌	Not Present	
2. How was the sa	ample delivered?		<u>Courier</u>			
Log In 3. Was an attempt	t made to cool the samples?		Yes 🔽	No 🗌		
4. Were all sample	es received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in pr	oper container(s)?		Yes 🖌	No 🗌		
6. Sufficient sampl	e volume for indicated test(s)	?	Yes 🗹	No 🗌		
7. Are samples (ex	cept VOA and ONG) properly	preserved?	Yes 🖌	No 🗌		
8. Was preservativ	e added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at leas	st 1 vial with headspace <1/4	for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	/
10. Were any samp	le containers received broker	1?	Yes	No 🔽	# of preserved	/
11. Does paperwork (Note discrepane	a match bottle labels? cies on chain of custody)		Yes 🗹	No 🗌	for pH: (\$2 or >1	2 unless noted)
12. Are matrices cor	rrectly identified on Chain of C	Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what a	nalyses were requested?		Yes 🗹	No 🗌		
14. Were all holding (If no, notify cust	times able to be met? tomer for authorization.)		Yes 🖌	No 🗌	Checked by: W	1 5/12/20
Special Handlin	g (if applicable)				1	
15. Was client notif	ied of all discrepancies with the	nis order?	Yes 🗌	No 🗌	NA 🗹	
Person No	otified:	Date:		nenan talah manananan kara mananan men		
By Whom	:	Via:	eMail	] Phone 🗌 Fax	In Person	
Regarding	g: J				Variation and Contraction Contractor States	
Client Inst	tructions:			anna a near agus e na an ann ann an ann ann an an ann an		
16. Additional rema	arks:					
17. <u>Cooler Informa</u>	ation	A MARK TO DATE OF THE O		a service at lower on some	3 1	

Hall Environmental Analysis Laboratory

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			-
2	1.2	Good	Not Present			

Page 1 of 1

Received by OCD: 10/21/2020 10:38:48 AM

Environmental Ysis laboratory	lenvironmental.com Albuquerque, NM 87109 Eox Fore 245 4407	rax 202-242-410/ nalysis Request	۵۵ <sub>4</sub> (fn	S ,4Oq 9sdA\lr	, NO <sub>2</sub> , Preser	цш ( -ЛО 10 <sup>3</sup>	1, 15r, 1 0 (VOA) 0 (Semi 10 11 10	Lota 827( 8266	7								the following via email:	e.con og 1 of 1	1.11 ha alcords anthread on the analytical remote
Anal	www.hal   Hawkins NE - EDE 24E 207E	C/20-040-000		SMISC	(1.40) (1.40) (7.28 ro	sebi: 5 bc 6 fals elais	3 (Method 5 (Method 58 yd 58 Method 58 Method 59 Method 59 Method 50 Methodd 50 Method	PAF PAF EDE									Please cc	Ditalonipe.com	i otto instruction data
	4901		(0)	Z08) s'	амт \ яа \ о	ек (ек			$\mathbf{i}$		_				_		l l temarks: Dadkins	Rpons@ b s : ~ < [	n Antibility
Turn-Around Time: Turn-Around Time: Around Time: Around Time: Project Name:	Hackberry 26 Battery Project#:	701401.088.01	Project Manager:	Chris Jones	Sampler: Brandon Sinclair On Ice: DYes E No	# of Coolers: 2	Cooler Temp(metuting cb): $1, 2 - G(c, \ell)$ 1, 2 $C$	Type and # Type 2005438	402 jar ice -001	- 002	-003	-004	-005	-006	- 007		Received by: Wia: Date Time F	Received by: Via: Date Time	
Chain-of-Custody Record Client: Talon LPE	Mailing Address: Artesia, NM 88210	Phone #:	email or Fax#: (575) 746-8905	QA/QC Package:	Accreditation:			Date Time Matrix Sample Name	5-8-20 14:08 Soil S-1 5 SW 0.5	14.11 S-2 S SW 0.5	14:14 S-3 W SW 0.5'	14:18 S-4 N SW 0.5	14:21 S-S N SW 0.5'	14:24 5-6 F 5 W 0.5	[ 14:28 S-7 E SW 0.5		Date: Time: Relinquished by:	Date: Time: Relinquished by:	and the second s

. Released to Imaging: 1/19/2021 11:17:01 AM



July 06, 2020

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

RE: Hackberry 26 CTB 1

OrderNo.: 2007003

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/1/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Gasoline Range Organics (GRO)

Surr: BFB

**Analytical Report** 

7/1/2020 3:13:33 PM

7/1/2020 3:13:33 PM

G70053

G70053

Hall Environmental Analysi	s Laboratory,	Inc.			Lab Order <b>2007003</b> Date Reported: <b>7/6/202</b>	:0
CLIENT: Talon Artesia Project: Hackberry 26 CTB 1 Lab ID: 2007003-001	Matrix: SOIL	Clier Co R	nt Sample II llection Data eceived Data	D: S- e: 6/: e: 7/	2 & S3 SW Composite 30/2020 1:00:00 PM 1/2020 9:20:00 AM	2
Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	11	10	mg/Kg	1	7/1/2020 3:49:21 PM	53449
Motor Oil Range Organics (MRO)	61	51	mg/Kg	1	7/1/2020 3:49:21 PM	53449
Surr: DNOP	99.5	55.1-146	%Rec	1	7/1/2020 3:49:21 PM	53449
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB

ND

98.6

3.9

66.6-105

mg/Kg

%Rec

1

1

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

Qualifiers:

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

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

Page 1 of 3

.

Client: Talon A Project: Hackbe	Artesia erry 26 CTB	1								
Sample ID: <b>MB-53449</b>	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batcl	h ID: 53	449	F	RunNo: 70	0058		Ū	0	
Prep Date: 7/1/2020	Analysis D	Date: 7/	1/2020	S	SeqNo: 24	434178	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		106	55.1	146			
Sample ID: LCS-53449	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batcl	h ID: 53	449	F	RunNo: 7	0058				
Prep Date: 7/1/2020	Analysis D	Date: 7/	1/2020	S	SeqNo: 24	434179	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	70	130			
Surr: DNOP	5.4		5.000		109	55.1	146			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 3

2007003

06-Jul-20

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Talon Artesia Hackberry 26 CTB	1								
Sample ID: <b>mb1</b>	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batcl	h ID: <b>G7</b>	0053	F	RunNo: 7	0053				
Prep Date:	Analysis E	0ate: <b>7/</b>	1/2020	S	SeqNo: 24	434081	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics Surr: BFB	(GRO) ND 1000	5.0	1000		101	66.6	105			
Sample ID: 2.5ug gr	olcs SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batcl	h ID: <b>G7</b>	0053	F	RunNo: 7	0053				
Prep Date:	Analysis D	0ate: <b>7/</b>	1/2020	S	SeqNo: 24	434082	Units: <b>mg/k</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics Surr: BFB	(GRO) 26 1100	5.0	25.00 1000	0	104 114	80 66.6	120 105			S

Qualifiers:

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

2007003

WO#:

 Imental Analysis Laboratory, Inc.
 06-Jul-20

. Released to Imaging: 1/19/2021 11:17:01 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397. Website: clients.hu	l Analy 490 nuquerq 5 FAX: allenvir	sis Labor 11 Hawki 11e, NM 505-345 ronmenta	ratory ns NE 87109 <b>Sa</b> -4107 11.com	ample Log-In	Check List
Client Name: Talon Artesia	Work Order Number	: 200	7003		Rcpt	No: 1
Received By: Juan Rojas Completed By: Juan Rojas	7/1/2020 9:20:00 AM 7/1/2020 10:25:16 AN	1		Hearing Hearing	<del>9</del>	
Reviewed By:						
<ul><li><u>Chain of Custody</u></li><li>1. Is Chain of Custody complete?</li><li>2. How was the sample delivered?</li></ul>		Yes <u>Cou</u> i	<b>⊻</b> rier	No 🗌	Not Present	
Log In 3. Was an attempt made to cool the samples?		Yes	✓	No 🗌	] NA [	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	<b>v</b>	No 🗌	] NA [	]
5. Sample(s) in proper container(s)?		Yes	✓	No 🗌	]	
6. Sufficient sample volume for indicated test(s	)?	Yes	✓	No 🗌		
7. Are samples (except VOA and ONG) proper	y preserved?	Yes	$\checkmark$	No 🗌		
8. Was preservative added to bottles?		Yes		No 🔽	NA 🗌	]
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes		No 🗌	NA 🗸	I
10. Were any sample containers received broke	n?	Yes		No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓	No 🗌	for pH:	e or >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes	<b>~</b>	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes	$\checkmark$	No 🗌		
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes		No 🗌	Checked by:	SPA 7.1.20
Special Handling (if applicable)						
15. Was client notified of all discrepancies with t	his order?	Yes		No 🗌	NA 🗹	]
Person Notified:	Date				Ī	
By Whom:	Via:	eMa	uil 🗌 F	hone 🗍 Fa	x	
Regarding:		nut Ante-				
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u>						
Cooler No         Temp °C         Condition         Se           1         3.2         Good         I	al Intact Seal No S	eal Da	te	Signed By		

Page 1 of 1

W	<i></i>	.30.40 AM			
HALL ENVIRONMENTAL ANALYSIS LABORATORY	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	1 5D(GRO / DRO / MRO) esticides/8082 PCB's lethod 504.1) by 8310 or 8270SIMS 3r, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> AOA) coliform (Present/Absent) coliform (Present/Absent)	Clipical Point Poin		narks: Please cc the following via email: adkins@talonlpe.com pons@talonlpe.com
Turn-Around Time:	Project #: 201 - 0 87.01	Project Manager:	Container Preservative HEAL No. Type and # Type 700 100 BTEX		Received by: Via: Date Time Ren UUUUUVVVVV UPSOL2 1355 D Received by: Via: 0 Date Time R
Client: Talon LPE 408 W Texas St	Mailing Address: Artesia, NM 88210	email or Fax#: (575) 746-8905 QA/QC Package: Cation Candard Cation Ca	Date Time Matrix Sample Name		Date: Time: Relinquished by: <u> <u> </u> </u>



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

August 06, 2020

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

OrderNo.: 2007D62

RE: ER S Hackberry

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/28/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

Lab Order 2007D62

Date Reported: 8/6/2020

	Cli	ient Sample II	<b>):</b> BC	G-East	
	(	Collection Date	e: 7/2	27/2020 10:00:00 AM	
Matrix: SOIL		Received Date	e: 7/2	28/2020 11:25:00 AM	
Result	RL	Qual Units	DF	Date Analyzed	Batch
				Analyst:	CJS
200	60	mg/Kg	20	7/30/2020 7:45:10 PM	54068
E ORGANICS				Analyst:	BRM
ND	9.6	mg/Kg	1	7/30/2020 7:55:39 PM	54031
ND	48	mg/Kg	1	7/30/2020 7:55:39 PM	54031
98.7	30.4-154	%Rec	1	7/30/2020 7:55:39 PM	54031
<b>E</b>				Analyst:	RAA
ND	5.0	mg/Kg	1	7/30/2020 9:03:32 PM	54029
94.4	75.3-105	%Rec	1	7/30/2020 9:03:32 PM	54029
	Matrix: SOIL Result 200 E ORGANICS ND 98.7 SE ND 94.4	Cli ( Matrix: SOIL 200 60 E ORGANICS ND 9.6 ND 48 98.7 30.4-154 SE ND 5.0 94.4 75.3-105	Client Sample II Collection Data Matrix: SOIL Received Data Result RL Qual Units 200 60 mg/Kg 200 60 mg/Kg E ORGANICS ND 9.6 mg/Kg 98.7 30.4-154 %Rec SE ND 5.0 mg/Kg 94.4 75.3-105 %Rec	Client Sample ID: BC         Collection Date: 7/2         Matrix: SOIL       Received Date: 7/2         Result       RL       Qual       Units       DF         200       60       mg/Kg       20         E ORGANICS       ND       9.6       mg/Kg       1         98.7       30.4-154       %Rec       1         GE         ND       5.0       mg/Kg       1         94.4       75.3-105       %Rec       1	Client Sample ID: BG-East           Collection Date: 7/27/2020 10:00:00 AM           Matrix: SOIL         Received Date: 7/28/2020 11:25:00 AM           Result         RL         Qual         Units         DF         Date Analyzed           200         60         mg/Kg         20         7/30/2020 7:45:10 PM           200         60         mg/Kg         1         7/30/2020 7:45:10 PM           E ORGANICS           ND         9.6         mg/Kg         1         7/30/2020 7:55:39 PM           98.7         30.4-154         %Rec         1         7/30/2020 7:55:39 PM           GE           ND         5.0         mg/Kg         1         7/30/2020 9:03:32 PM           94.4         75.3-105         %Rec         1         7/30/2020 9:03:32 PM

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

**Qualifiers:** 

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

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

Page 1 of 6

**Analytical Report** 

Lab Order 2007D62

Date Reported: 8/6/2020

CLIENT: Talon Ar	tesia	Client Sample ID: BG-South					
Project: ER S Ha	ckberry		(	Collection Dat	<b>e:</b> 7/2	27/2020 10:10:00 AM	
Lab ID: 2007D62	2-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 7/2	28/2020 11:25:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300	.0: ANIONS					Analyst	CJS
Chloride		160	60	mg/Kg	20	7/30/2020 7:57:35 PM	54068
EPA METHOD 801	5M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel Range Orgar	nics (DRO)	ND	9.6	mg/Kg	1	7/30/2020 8:19:55 PM	54031
Motor Oil Range Org	ganics (MRO)	ND	48	mg/Kg	1	7/30/2020 8:19:55 PM	54031
Surr: DNOP		90.7	30.4-154	%Rec	1	7/30/2020 8:19:55 PM	54031
EPA METHOD 801	5D: GASOLINE RAN	IGE				Analyst	RAA
Gasoline Range Org	ganics (GRO)	ND	5.0	mg/Kg	1	7/30/2020 9:27:04 PM	54029
Surr: BFB		95.9	75.3-105	%Rec	1	7/30/2020 9:27:04 PM	54029

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

**Qualifiers:** 

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

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

Page 2 of 6

**Analytical Report** Lab Order 2007D62

Date Reported: 8/6/2020

CLIENT: Project: Lab ID:	Talon Artesia ER S Hackberry 2007D62-003	Client Sample ID: BG-West           Collection Date: 7/27/2020 10:20:00 AM           Matrix: SOIL         Received Date: 7/28/2020 11:25:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst:	ЈМТ	
Chloride		120	60	mg/Kg	20	7/30/2020 11:31:16 PM	54076	
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM	
Diesel Ra	ange Organics (DRO)	ND	10	mg/Kg	1	7/30/2020 8:44:28 PM	54031	
Motor Oil	I Range Organics (MRO)	ND	50	mg/Kg	1	7/30/2020 8:44:28 PM	54031	
Surr: E	DNOP	97.1	30.4-154	%Rec	1	7/30/2020 8:44:28 PM	54031	
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst:	RAA	
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	7/30/2020 9:50:31 PM	54029	
Surr: E	3FB	96.0	75.3-105	%Rec	1	7/30/2020 9:50:31 PM	54029	

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

**Qualifiers:** 

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

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

Page 3 of 6

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	alon Artesia	
Sample ID: MB-5407	6 SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 54076 RunNo: 70743	
Prep Date: 7/30/20	20 Analysis Date: 7/30/2020 SeqNo: 2461887 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPI	D RPDLimit Qual
Chloride	ND 1.5	
Sample ID: LCS-540	76 SampType: Ics TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 54076 RunNo: 70743	
Prep Date: 7/30/20	20 Analysis Date: 7/30/2020 SeqNo: 2461888 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPI	D RPDLimit Qual
Chloride	14 1.5 15.00 0 91.6 90 110	
Sample ID: MB-5406	8 SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 54068 RunNo: 70745	
Prep Date: 7/30/20	20 Analysis Date: 7/30/2020 SeqNo: 2461989 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPI	D RPDLimit Qual
Chloride	ND 1.5	
Sample ID: LCS-540	SampType:         Ics         TestCode:         EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 54068 RunNo: 70745	
Prep Date: 7/30/20	20 Analysis Date: 7/30/2020 SeqNo: 2461990 Units: mg/Kg	
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPI	D RPDLimit Qual
Chloride	14 1.5 15.00 0 93.7 90 110	

Qualifiers:

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

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2007D62

06-Aug-20

WO#:

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Project: Talc	on Artesia S Hackberry										
Sample ID: LCS-54031	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		Π
Client ID: LCSS	Batch	ID: 540	031	F	RunNo: 7	0721					
Prep Date: 7/29/2020	Analysis D	ate: <b>7/</b>	30/2020	S	SeqNo: 24	462396	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	10	50.00	0	106	70	130				
Surr: DNOP	4.6		5.000		92.0	30.4	154				
Sample ID: MB-54031	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch	ID: 540	031	R	RunNo: 7	0721					
Prep Date: 7/29/2020	Analysis D	ate: <b>7/</b> 3	30/2020	S	SeqNo: 24	462397	Units: <b>mg/K</b>	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Notor Oil Range Organics (MR	D) ND	50									
Surr: DNOP	9.4		10.00		94.2	30.4	154				

**Qualifiers:** 

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

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

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2007D62

06-Aug-20

WO#:

RL Reporting Limit

1

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Talon A Project: ER S H	Artesia ackberry										
Sample ID: Ics-54029	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: LCSS	Batch	n ID: 54	029	F	RunNo: 7	0748					
Prep Date: 7/29/2020	Analysis D	ate: 7/	30/2020	S	SeqNo: 2	462199	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.9	72.5	106				
Surr: BFB	1000		1000		105	75.3	105				
Sample ID: mb-54029	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: PBS	Batch	n ID: 54	029	F	RunNo: 7	0748					
Prep Date: 7/29/2020	Analysis D	ate: 7/	30/2020	5	SeqNo: 2	462201	Units: <b>mg/K</b>	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	980		1000		98.1	75.3	105				

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

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	WO#:	2007D62

06-Aug-20

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HALL ENVIRONMENTAL ANALYSIS LABORATORY			Hali TEI Wé	l Environme .: 505-345-: ebsite: clien	ental Analy 490 Albuquerq 3975 FAX: ts.hallenvir	esis Lab )1 Haw Jue, NN 505-34 ronmen	oratory kins NE 1 87109 15-4107 tal.com	Sample Log-In Check List								
Client Name:	Talon Arte	sia	Work	Order Num	nber: 2001	7D62	i.	RcptNo: 1								
Received By:	Juan Roj	35	7/28/202	20 11:25:0	0 AM		4u	un Sy								
Completed By:	Juan Roj	as	7/28/202	20 11:47:4	5 AM		44	ang	are ***							
Reviewed By:	4		7/28/0	20												
<u>Chain of Cus</u>	<u>stody</u>															
1. Is Chain of C	ustody comp			Yes	$\checkmark$	1	lo 🗌	Not Present								
2. How was the	sample deli			<u>Cou</u>	<u>rier</u>											
<u>Log In</u> 3. Was an atten	npt made to	cool the samples?	?		Yes		Ν	lo 🗌								
4. Were all sam	ples received	l at a temperature	eof>0°Ct	o 6.0°C	Yes		Ν	lo 🗌								
5. Sample(s) in	proper conta	iner(s)?			Yes		Ν	lo 🗌								
6. Sufficient sam	ple volume	or indicated test(	s)?		Yes	✓	N	•								
7. Are samples (	(except VOA	and ONG) proper	rly preserve	d?	Yes	$\checkmark$	N	o 🗌								
8. Was preserva	tive added to	bottles?			Yes		N	o 🔽	NA 🗌							
9. Received at le	east 1 vial wi	h headspace <1/	4" for AQ V	OA?	Yes		N	o 🗌	NA 🗹							
10. Were any sar	mple contain	en?		Yes		Ν	lo 🔽									
11. Does paperwo	ork match bo			Yes		N	o 🗌	# of preserved bottles checked for pH:	12 uplace poted)							
12 Are matrices	ancies on ch correctly ider	Custody?		Yes		N	<b>n</b> []	Adjusted?								
13 Is it clear what		Yes		N	o 🗌											
14. Were all holdi (If no, notify c			Yes		N	o 🗌	Checked by:	mc mare								
Special Handl	ing (if ap	olicable)														
15. Was client no	otified of all d	iscrepancies with	this order?		Yes		Ν	lo 🗌	NA 🔽							
Person	Notified:			Date						]						
By Whom:			🗌 eMa	🗌 eMail 📃 P		Fax	ln Person									
Regard	ing:															
Client I	nstructions:					*****										
16. Additional re	marks:	***								-						
17. <u>Cooler inf</u> or	mation															
Cooler No	Temp °C	Condition	eal Intact	Seal No	Seal D	ate	Signe	d By								
1	1.0	Good														

Page 1 of 1 . Released to Imaging: 1/19/2021 11:17:01 AM

LL ENVIRONMENTAL ALYSIS LABORATORY ./hallenvironmental.com	IE - Albuquerque, NM 87109 375 Fax 505-345-4107	Analysis Request	the second seco	9 ,t₄Oq 9≥dÅ\tn	s NO <sub>2</sub> , NO <sub>2</sub> , 92919)	etals NO3 )	8 Md Sem Solifc	RCRA 8260 ( 10tal C 10tal C			7					e cc the following via email:	e.com pe.com
	4901 Hawkins N Tel. 505-345-36		; ; (0) ;;	051MS PCB's PCB's PCB's	/ TMB 8/8082 504.1) 01.827	310 9(GF 9(GF	DA 8 Vestic Meth Meth Meth	X X X X X X X X X X X X X X X X X X X	, ``		2			 		Remarks: Please Dadkins@talonl	Rpons@talonlpe Bsinclair@talon
Time: 2/10uy	dow K baary.	088.01	jer.	S	Quitrin 5 Yes		noluting OE): 1.0-0 51.0	Preservative 70076062	190- 1005	200- ,-	-C003					Via: Date Time	Via: Date Time
Turn-Around Iy/ Standard Project Name	Project #	106701	Project Mana	Rebecca Po	Sampler.	# of Coolers.		Container Type and #	C.W.	2	>					Received by	Manda M
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:	Accreditation:	EDD (Type)		Date Time Matrix Sample Name	2h-2 h in Ra-51,2+	Vania 36-501+4	10:20 A.C 11/657					Date: Time: Relinquished by:	Date: Time: Relinquished by Company

Received by OCD: 10/21/2020 10:38:48 AM


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

October 08, 2020

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

RE: ERTS Hackberry Rhs Spill (Hackberry)

OrderNo.: 2010116

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/2/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** Lab Order 2010116

Date Reported: 10/8/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		Client Sample ID: S1 2'							
Project:	ERTS Hackberry Rhs Spil	l (Hackberry)	(	Collection Dat	<b>e:</b> 10	/1/2020 10:30:00 AM				
Lab ID:	2010116-001	Matrix: SOIL	Matrix: SOIL         Received Date: 10/2/2020 8:00:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT			
Chloride		ND	60	mg/Kg	20	10/7/2020 8:37:47 PM	55707			
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	JMR			
Gasoline Range Organics (GRO)		ND	4.9	mg/Kg	1	10/5/2020 7:52:11 PM	55620			
Surr: E	3FB	103	70-130	%Rec	1	10/5/2020 7:52:11 PM	55620			
EPA MET	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	: mb			
Diesel R	ange Organics (DRO)	ND	8.8	mg/Kg	1	10/5/2020 12:08:47 PM	55626			
Motor Oi	I Range Organics (MRO)	ND	44	mg/Kg	1	10/5/2020 12:08:47 PM	55626			
Surr: [	DNOP	89.3	30.4-154	%Rec	1	10/5/2020 12:08:47 PM	55626			
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	: JMR			
Benzene		ND	0.025	mg/Kg	1	10/5/2020 7:52:11 PM	55620			
Toluene		ND	0.049	mg/Kg	1	10/5/2020 7:52:11 PM	55620			
Ethylben	Ethylbenzene		0.049	mg/Kg	1	10/5/2020 7:52:11 PM	55620			
Xylenes,	Total	ND	0.098	mg/Kg	1	10/5/2020 7:52:11 PM	55620			

94.8

103

108

103

70-130

70-130

70-130

70-130

%Rec

%Rec

%Rec

%Rec

1

1

1

1

10/5/2020 7:52:11 PM

10/5/2020 7:52:11 PM

10/5/2020 7:52:11 PM

10/5/2020 7:52:11 PM

55620

55620

55620

55620

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

**Qualifiers:** 

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

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

Page 1 of 12

Surr: Toluene-d8

Analytical Report Lab Order 2010116

Date Reported: 10/8/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		Cl	ient Sample II	<b>D:</b> S2	2'	
Project:	ERTS Hackberry Rhs Spil	l (Hackberry)	(	Collection Dat	<b>e:</b> 10	/1/2020 10:40:00 AM	
Lab ID:	2010116-002	Matrix: SOIL					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	10/7/2020 9:15:00 PM	55707
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	JMR
Gasoline Range Organics (GRO)		ND	4.9	mg/Kg	1	10/5/2020 8:20:43 PM	55620
Surr: BFB		102	70-130	%Rec	1	10/5/2020 8:20:43 PM	55620
EPA METHOD 8015M/D: DIESEL RANGE		ANGE ORGANICS				Analyst	: mb
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	10/5/2020 12:18:30 PM	55626
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	10/5/2020 12:18:30 PM	55626
Surr: [	ONOP	103	30.4-154	%Rec	1	10/5/2020 12:18:30 PM	55626
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	JMR
Benzene	)	ND	0.025	mg/Kg	1	10/5/2020 8:20:43 PM	55620
Toluene		ND	0.049	mg/Kg	1	10/5/2020 8:20:43 PM	55620
Ethylben	zene	ND	0.049	mg/Kg	1	10/5/2020 8:20:43 PM	55620
Xylenes,	Total	ND	0.098	mg/Kg	1	10/5/2020 8:20:43 PM	55620
Surr: 1	1,2-Dichloroethane-d4	96.0	70-130	%Rec	1	10/5/2020 8:20:43 PM	55620
Surr: 4	1-Bromofluorobenzene	106	70-130	%Rec	1	10/5/2020 8:20:43 PM	55620
Surr: [	Dibromofluoromethane	108	70-130	%Rec	1	10/5/2020 8:20:43 PM	55620

103

70-130

%Rec

1

10/5/2020 8:20:43 PM

55620

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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 12

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** Lab Order 2010116

Date Reported: 10/8/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia			Cl	ient Sample	ID: S3	3 2'	
Project:	ERTS Hackberry Rhs Spil	l (Hackberry)		(	Collection D	<b>ate:</b> 10	/1/2020 10:50:00 AM	
Lab ID:	2010116-003	Matrix:	SOIL		Received D	<b>ate:</b> 10	/2/2020 8:00:00 AM	
Analyses		R	esult	RL	Qual Units	s DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	: JMT
Chloride			ND	60	mg/K	g 20	10/7/2020 9:27:24 PM	55707
EPA MET	INE RANGE					Analyst	JMR	
Gasoline Range Organics (GRO)			ND	4.9	mg/K	g 1	10/5/2020 8:49:10 PM	55620
Surr: I	BFB		104	70-130	%Re	c 1	10/5/2020 8:49:10 PM	55620
ΕΡΑ ΜΕΊ	HOD 8015M/D: DIESEL R		s				Analyst	: mb
Diesel R	ange Organics (DRO)		ND	9.8	mg/K	g 1	10/5/2020 12:28:13 PM	55626
Motor Oi	I Range Organics (MRO)		ND	49	mg/K	g 1	10/5/2020 12:28:13 PM	55626
Surr: I	ONOP		93.3	30.4-154	%Re	c 1	10/5/2020 12:28:13 PM	55626
EPA MET	HOD 8260B: VOLATILES	SHORT LIST					Analyst	: JMR
Benzene	)		ND	0.025	mg/K	g 1	10/5/2020 8:49:10 PM	55620
Toluene	Toluene		ND	0.049	mg/K	g 1	10/5/2020 8:49:10 PM	55620
Ethylben	Ethylbenzene		ND	0.049	mg/K	g 1	10/5/2020 8:49:10 PM	55620
Xylenes,	Xylenes, Total		ND	0.099	mg/K	g 1	10/5/2020 8:49:10 PM	55620
Surr: 1	1,2-Dichloroethane-d4		100	70-130	%Re	c 1	10/5/2020 8:49:10 PM	55620

109

106

101

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

10/5/2020 8:49:10 PM

10/5/2020 8:49:10 PM

10/5/2020 8:49:10 PM

55620

55620

55620

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

**Qualifiers:** 

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

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

Page 3 of 12

Xylenes, Total

Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** Lab Order 2010116

Date Reported: 10/8/2020

10/5/2020 9:17:38 PM

55620

55620

55620

55620

55620

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Project:	Talon Artesia ERTS Hackberry Rhs Spill	(Hackberry)	Client Sample ID: S4 2'           Collection Date: 10/1/2020 11:00:00 AM								
Lab ID:	2010116-004	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 10	/2/2020 8:00:00 AM					
Analyses	1	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA ME	THOD 300.0: ANIONS					Analyst	ЈМТ				
Chloride		ND	60	mg/Kg	20	10/7/2020 9:39:48 PM	55707				
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE				Analyst	JMR				
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	10/5/2020 9:17:38 PM	55620				
Surr:	BFB	103	70-130	%Rec	1	10/5/2020 9:17:38 PM	55620				
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	mb				
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	10/5/2020 12:37:57 PM	55626				
Motor O	il Range Organics (MRO)	ND	49	mg/Kg	1	10/5/2020 12:37:57 PM	55626				
Surr:	DNOP	91.0	30.4-154	%Rec	1	10/5/2020 12:37:57 PM	55626				
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst	JMR				
Benzene	9	ND	0.024	mg/Kg	1	10/5/2020 9:17:38 PM	55620				
Toluene		ND	0.049	mg/Kg	1	10/5/2020 9:17:38 PM	55620				
Ethylber	izene	ND	0.049	mg/Kg	1	10/5/2020 9:17:38 PM	55620				

ND

97.5

105

104

101

0.097

70-130

70-130

70-130

70-130

mg/Kg

%Rec

%Rec

%Rec

%Rec 1

1

1

1

1

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

**Qualifiers:** 

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 4 of 12

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

**Analytical Report** Lab Order 2010116

Date Reported: 10/8/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Project:	Talon Artesia ERTS Hackberry Rhs Spill	(Hackberry)	Cl (	ient Sample II Collection Dat	<b>D:</b> S5 <b>e:</b> 10	2' /1/2020 11:10:00 AM			
Lab ID:	2010116-005	Matrix: SOIL	Received Date: 10/2/2020 8:00:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
ΕΡΑ ΜΕΊ	THOD 300.0: ANIONS					Analyst:	ЈМТ		
Chloride		ND	59	mg/Kg	20	10/7/2020 9:52:13 PM	55707		
EPA MET	THOD 8015D MOD: GASOLI	NE RANGE				Analyst:	JMR		
Gasoline Range Organics (GRO)		ND	4.9	mg/Kg	1	10/5/2020 9:46:07 PM	55620		
Surr: I	BFB	105	70-130	%Rec	1	10/5/2020 9:46:07 PM	55620		
EPA MET	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	mb		
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	10/5/2020 12:47:41 PM	55626		
Motor Oi	l Range Organics (MRO)	ND	48	mg/Kg	1	10/5/2020 12:47:41 PM	55626		
Surr: I	DNOP	98.0	30.4-154	%Rec	1	10/5/2020 12:47:41 PM	55626		
EPA MET	THOD 8260B: VOLATILES S	HORT LIST				Analyst:	JMR		
Benzene		ND	0.025	mg/Kg	1	10/5/2020 9:46:07 PM	55620		
Toluene		ND	0.049	mg/Kg	1	10/5/2020 9:46:07 PM	55620		
Ethylben	izene	ND	0.049	mg/Kg	1	10/5/2020 9:46:07 PM	55620		

ND

94.2

105

105

104

0.099

70-130

70-130

70-130

70-130

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

10/5/2020 9:46:07 PM

55620

55620

55620

55620

55620

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

**Qualifiers:** 

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

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

Page 5 of 12

**Project:** 

Lab ID:

Analyses

**Analytical Report** Lab Order 2010116

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/8/2020 **CLIENT:** Talon Artesia Client Sample ID: S6 2' ERTS Hackberry Rhs Spill (Hackberry) Collection Date: 10/1/2020 11:20:00 AM 2010116-006 Matrix: SOIL Received Date: 10/2/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch

EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	ND	60	mg/Kg	20	10/7/2020 10:04:37 PM	55707
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/5/2020 10:14:35 PM	55620
Surr: BFB	101	70-130	%Rec	1	10/5/2020 10:14:35 PM	55620
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	lics				Analyst:	mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/5/2020 12:57:27 PM	55626
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/5/2020 12:57:27 PM	55626
Surr: DNOP	98.7	30.4-154	%Rec	1	10/5/2020 12:57:27 PM	55626
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	JMR
Benzene	ND	0.024	mg/Kg	1	10/5/2020 10:14:35 PM	55620
Toluene	ND	0.048	mg/Kg	1	10/5/2020 10:14:35 PM	55620
Ethylbenzene	ND	0.048	mg/Kg	1	10/5/2020 10:14:35 PM	55620
Xylenes, Total	ND	0.097	mg/Kg	1	10/5/2020 10:14:35 PM	55620
Surr: 1,2-Dichloroethane-d4	91.6	70-130	%Rec	1	10/5/2020 10:14:35 PM	55620
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/5/2020 10:14:35 PM	55620
Surr: Dibromofluoromethane	105	70-130	%Rec	1	10/5/2020 10:14:35 PM	55620
Surr: Toluene-d8	101	70-130	%Rec	1	10/5/2020 10:14:35 PM	55620

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

**Qualifiers:** 

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

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

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Analytical Report Lab Order 2010116

Date Reported: 10/8/2020

10/6/2020 12:37:11 AM 55620

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Talon Artesia		Cl	ient Sample II	<b>):</b> S7	' 2'			
Project:	ERTS Hackberry Rhs Spill (	(Hackberry)	Collection Date: 10/1/2020 11:30:00 AM						
Lab ID:	2010116-007	Matrix: SOIL	Intrix:         SOIL         Received Date: 10/2/2020 8:00:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	ЈМТ		
Chloride		ND	60	mg/Kg	20	10/7/2020 10:17:01 PM	55707		
EPA MET	HOD 8015D MOD: GASOLIN	NE RANGE				Analyst	JMR		
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/6/2020 12:37:11 AM	55620		
Surr: E	BFB	99.7	70-130	%Rec	1	10/6/2020 12:37:11 AM	55620		
EPA MET	HOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst	mb		
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	10/5/2020 1:07:21 PM	55626		
Motor Oi	l Range Organics (MRO)	ND	49	mg/Kg	1	10/5/2020 1:07:21 PM	55626		
Surr: [	DNOP	96.9	30.4-154	%Rec	1	10/5/2020 1:07:21 PM	55626		
EPA MET	HOD 8260B: VOLATILES SI	HORT LIST				Analyst	JMR		

ND

ND

ND

ND

99.1

101

111

96.6

0.025

0.049

0.049

0.099

70-130

70-130

70-130

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

%Rec

%Rec

1

1

1

1

1

1

1

1

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to 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

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**Project:** 

Lab ID:

Analyses

Chloride

**Analytical Report** Lab Order 2010116

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/8/2020 **CLIENT:** Talon Artesia Client Sample ID: S8 2' ERTS Hackberry Rhs Spill (Hackberry) Collection Date: 10/1/2020 11:40:00 AM 2010116-008 Matrix: SOIL Received Date: 10/2/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: JMT ND 60 mg/Kg 20 10/7/2020 10:54:15 PM 55707 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 10/6/2020 1:05:43 AM 55620 103 70-130 %Rec 10/6/2020 1.05.43 AM 55620 1

Surr: BFB	103	70-130	%Rec	1	10/6/2020 1:05:43 AM	55620
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/5/2020 1:17:15 PM	55626
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/5/2020 1:17:15 PM	55626
Surr: DNOP	94.6	30.4-154	%Rec	1	10/5/2020 1:17:15 PM	55626
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	10/6/2020 1:05:43 AM	55620
Toluene	ND	0.050	mg/Kg	1	10/6/2020 1:05:43 AM	55620
Ethylbenzene	ND	0.050	mg/Kg	1	10/6/2020 1:05:43 AM	55620
Xylenes, Total	ND	0.099	mg/Kg	1	10/6/2020 1:05:43 AM	55620
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	10/6/2020 1:05:43 AM	55620
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/6/2020 1:05:43 AM	55620
Surr: Dibromofluoromethane	101	70-130	%Rec	1	10/6/2020 1:05:43 AM	55620
Surr: Toluene-d8	99.7	70-130	%Rec	1	10/6/2020 1:05:43 AM	55620

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

**Qualifiers:** 

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

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

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Prep Date: 10/7/2020

Analysis Date: 10/7/2020

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<b>QC 50</b> Hall En	vironmen	tal Analysis Laborato	ory, Inc.	WO#:	2010116 08-Oct-20
Client: Project:					
Sample ID: MB-55707 SampType: mblk		SampType: <b>mblk</b>	TestCode: EPA Method 300.0: Anions		
Client ID:	PBS	Batch ID: 55707	RunNo: <b>72490</b>		

SeqNo: 2544370

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-55707 SampType: Ics				Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	n ID: 55	707	F	RunNo: 7	2490				
Prep Date: 10/7/2020	Analysis D	ate: 10	0/7/2020	S	SeqNo: 2	544371	Units: mg/K	g		
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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

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### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc. -----

Client: T Project: E	alon Artesia RTS Hackberry R	hs Spill	(Hackberry	y)						
Sample ID: MB-5562	6 Samp	Type: ME	BLK	Test	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: 55	626	R	unNo: <b>7</b> 2	2384				
Prep Date: 10/3/202	20 Analysis [	Analysis Date: 10/5/2020		SeqNo: 2539069			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	:0) ND	10								
Motor Oil Range Organics (	MRO) ND	50								
Surr: DNOP	10		10.00		99.5	30.4	154			
Sample ID: LCS-5562	26 Samp	Type: LC	S	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS Batch ID: 55626 RunNo: 72384										

Prep Date: 10/3/2020	Prep Date: 10/3/2020 Analysis Date: 10/5/20		/5/2020	S	SeqNo: 2	539070	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	91.9	70	130				
Surr: DNOP	4.5		5.000		90.6	30.4	154				

**Qualifiers:** 

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

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

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2010116

08-Oct-20

WO#:

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#:	2010116
	08-Oct-20

08-	0	ct-	20
08-	$\boldsymbol{o}$	ct-	20

Client: Talon A	Artesia											
Project: ERTS	Hackberry R	hs Spill	(Hackberr	y)								
Sample ID: Ics-55620	ample ID: Ics-55620 SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List											
Client ID: BatchQC	Batcl	h ID: 55	620	F	RunNo: 72	2410						
Prep Date: 10/2/2020	Analysis D	Date: 10	/5/2020	S	SeqNo: 2	540285	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.91	0.025	1.000	0	90.5	80	120					
Toluene	1.0	0.050	1.000	0	102	80	120					
Ethylbenzene	1.0	0.050	1.000	0	104	80	120					
Xylenes, Total	3.1	0.10	3.000	0	103	80	120					
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130					
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130					
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130					
Surr: Toluene-d8	0.51		0.5000		102	70	130					
Sample ID: mb-55620	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batcl	h ID: 550	620	F	RunNo: 72	2410						
Prep Date: 10/2/2020	Analysis D	Date: 10	/5/2020	5	SeqNo: 2	540286	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: 1,2-Dichloroethane-d4	0.45		0.5000		89.8	70	130					
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130					
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130					
Surr: Toluene-d8	0.50		0.5000		101	70	130					

#### **Qualifiers:**

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

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

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# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Talon A Project: ERTS H	rtesia Iackberry Rl	hs Spill	(Hackberry	y)						
Sample ID: Ics-55620	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 55	620	F	RunNo: 7	2410				
Prep Date: 10/2/2020	Analysis D	ate: 10	0/5/2020	S	SeqNo: 2	540309	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics (GRO)	22	5.0	25.00	0	87.8	70	130			
Surr: BFB	520		500.0		104	70	130			
Sample ID: mb-55620	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	n ID: 55	620	F	RunNo: 7	2410				
Prep Date: 10/2/2020	Analysis D	ate: 10	0/5/2020	S	SeqNo: 2	540310	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		101	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

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2010116

08-Oct-20

WO#:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: clients.ha	Analy. 490 iquerq FAX: llenvir	sis Laborat 1 Hawkins ue, NM 87 505-345-4 onmental.c	ory NE 109 107 com	Pa Sample Log-In Check List				
Client Name: Talon Artesia	Work Order Number:	2010	)116			RcptNo: 1			
Received By: Cheyenne Cason	10/2/2020 8:00:00 AM								
Completed By: Juan Rojas	10/2/2020 9:13:21 AM			Guan	ag.				
Reviewed By: JR-10/2/20									
Chain of Custody									
1. Is Chain of Custody complete?		Yes	$\checkmark$	No		Not Present			
2. How was the sample delivered?		Cou	ier						
Log In									
3. Was an attempt made to cool the samples?		Yes	$\checkmark$	No		NA 🗌			
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	$\checkmark$	No					
5. Sample(s) in proper container(s)?		Yes		No					
6. Sufficient sample volume for indicated test(s)	?	Yes	$\checkmark$	No					
$7_{\cdot}$ Are samples (except VOA and ONG) properly	preserved?	Yes	$\checkmark$	No					
8. Was preservative added to bottles?		Yes		No	$\checkmark$	NA			
9. Received at least 1 vial with headspace <1/4'	for AQ VOA?	Yes		No		NA 🔽			
10. Were any sample containers received broker	1?	Yes		No		# of preserved			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	$\checkmark$	No		bottles checked for pH: 			
12. Are matrices correctly identified on Chain of 0	Custody?	Yes	$\checkmark$	No		Adjusted?			
13. Is it clear what analyses were requested?		Yes	$\checkmark$	No		101			
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes	$\checkmark$	No		Checked by CM 10/2			
Special Handling (if applicable)									
15. Was client notified of all discrepancies with t	his order?	Yes		No		NA 🗹			
Person Notified:	Date				accessor				
By Whom:	Via:	eMa	ail 🗌 Ph	ione	Fax	In Person			
Regarding:									
Client Instructions:									
16. Additional remarks:									
17. Cooler Information									
Cooler No Temp °C Condition Se	al Intact Seal No S	eal Da	ate S	Signed I	Зу				

Page 1 of 1

Custody Record Turn-Around Time: 4-Day Record Hall ENVIRONMENTAL	as St Project Name: ERTS Ackberry PHS Sp; 71 www.hallenvironmental.com	Artesia, NM 88210 (Hack benry) 4901 Hawkins NF - Albumination NM 87109	Project #: 70/90/ 08%,01         Tel. 505-345-3975         Fax 505-345-4107	Analysis Request	75) 746-8905 Project Manager: Redecca Pons ニ ೧ ブ モ	4' Set 3021	□ Level 4 (Full Validation)	z Compliance Sampler: Roy ℓ 20 21	Dther	#of Ceolers: [	Cooler Temp(induing cr) 2 3 0 1 2 7 MT 15D etho	201 201 201 201 201 201 201 201	rix Sample Name Type and # Type 7010/00 BT PP 88 BT PP 86 BT PP 88	1/51 21 Jar Ice/cool -001 XX X	52 2' / / LOC / /	53 2'		/ 55 2' · · · )605 / /   /   /   /   /	56 2' . /	57 2'	S8 2' 1 1 28 2'		quished by: Received by: Via: Date Time Remarks: Date Time Rem	Male and Dark Control Control of 1030 Dadkins@talonipe.com	iquished by: Received by: Via: P Date Time Rpons@talonIpe.com	Ummen wir Paral Brew Beel
Chain-of-Custody F	408 W Texas St	ailing Address: Artesia, NM 88		hone #:	nail or Fax#: (575) 746-8905	A/QC Package:	□ Standard □ Level 4 (I	ccreditation:	I NELAC   Other	I EDD (Type)			ate Time Matrix Sample N	1/20 10:30 Sol 51 21	/ 10:40 / 52 2'	10:50 53 2'	11:00 54 2'	M:10 / 55 21	/ 11:20 / 56 21	11:30 57 21	(11:40) S& 21		ate: Time: Relinquished by:	201 Mi 20 Ofich and	ale: Time: Relinquished by:	11 19 (JUNNIN 66/11

. Released to Imaging: 1/19/2021 11:17:01 AM

CONDITIONS

Action 10772

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

Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410

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

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

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

#### CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:						
TALON LPE	408 W Texas	Artesia, NM88210	329944	10772	C-141						
OCD Reviewer			Condition	Condition							
ceads			None								