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### Remediation and Deferrel Closure Report

Union 35 A Federal Battery Eddy County, NM API# 30-015-24689 \*2RP-2854, \*2RP-4481, \*2RP-5507

### Prepared For:

Devon Energy Production Company 6488 Seven Rivers Highway Artesia, NM 88210

Marathon Oil Permian, LLC 4111 S. Tidwell Rd. Carlsbad, NM 88220

### Prepared By:

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

April 20, 2020

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

Mr. Mike Bratcher NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject: Remediation and Deferrel Closure Report

Union 35 A Federal Battery

API# 30-015-24689

\*2RP-2854, \*2RP-4481, \*2RP-5507

Dear Mr. Amos & Mr. Bratcher,

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

### Site Information

Union 35 Federal #001 is located approximately eleven (11) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter E, Section 35, Township 22 South and Range 28 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.3515739 North and -104.0647507 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded. The referenced soil data is presented in Appendix II. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology are Holocene to lower Pleistocene in age and are comprised of piedmont alluvial deposits. Drainage courses in this area are well-drained.

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

The New Mexico Office of the State Engineer Database indicates the reported nearest depth to groundwater is 15-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is not located within a high potential Karst area.

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	Groundwater	15 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing wa any other significant watercourse	atercourse or
∐Yes ⊠No	Within 200 feet of any lakebed, sinkhole or pla	aya lake
□Yes ⊠No	Within 300 feet from an occupied permanent r school, hospital, institution or church	residence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domes well used by less than five households for dor watering purposes	
∐Yes ⊠No	Within 1000 feet of any freshwater well or spri	ng
∐Yes ⊠No	Within incorporated municipal boundaries or with Municipal freshwater well field covered under ordinance adopted pursuant to Section 3-2703	a municipal
∐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	

The release did not occur in any of these areas and the depth to groundwater is less than 50-feet below ground surface (BGS). Based on the site characterization data, the cleanup criteria for this site are as follows.

	Tab Closure Criteria for Soils		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
<50 feet	Total Chlorides	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### **Devons Incident Descriptions**

### 2RP-2854

On September 19, 2014, static electricity caused a produced water tank to combust. 117 barrels (bbls) of produced water were spilled into the battery along with 133 bbls of rainwater and water used by the fire department, all of which (250 bbls) was recovered.

2RP-4481

On October 26, 2017, 5.2 bbls of produced water were released into the battery's earthen containment when the tank ran over due to a late pick-up. Approximately 4 bbls were recovered.

2RP-5507

On November 19, 2018, the produced water tank overflowed releasing 9 bbls of fluids into the unlined battery, 7bbls of which were recovered.

The Initial C-141's are attached in Appendix III.

### **Marathons Incident Description**

### NRM 2004839548

On January 27, 2020, a release of 15 barrels (bbls) of produced water was the result of a tank overflow. The release was contained within the earthen berms of the tank battery. No fluids were recovered.

The Initial C-141 is attached in Appendix III.

### **Site Sampling**

On April 3, 2019, Talon mobilized personnel and equipment to begin the site characterization and remediation activities simultaneously due to the pending property transfer. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in Appendix VI.

4-3-19 Soil Sample Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
	Table 1 Closui 9.15.29 NMA		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-1	4/3/2019	0	ND	ND	ND	560	4900	5460	400
		0	ND	ND	ND	ND	ND	ND	2400
S-2	4/3/2019	1	ND	ND	ND	ND	ND	ND	1100
		2	ND	ND	ND	ND	ND	ND	490
S-3	4/3/2019	0	ND	ND	ND	ND	ND	ND	ND
3-3	4/3/2019	1	ND	ND	ND	ND	ND	ND	ND
S-4	4/3/2019	0	ND	ND	ND	ND	ND	ND	ND
3-4	4/ 3/ 2019	1	ND	ND	ND	ND	ND	ND	ND
S-5	4/3/2019	0	ND	ND	ND	61	200	261	ND
S-6	4/3/2019	0	ND	ND	ND	2300	4000	6300	69
S-7	4/3/2019	0	ND	ND	ND	1800	3200	5000	ND
S-8	4/3/2019	0	ND	ND	ND	ND	ND	ND	19000
S-9	4/3/2019	0	ND	ND	ND	16	ND	16	ND
S-10	4/3/2019	0	0.69	ND	120	28000	20000	48120	2100

ND= Analyte Not Detected

On May 17 and 24, 2019, further composite soil sampling was conducted for chlorides to guide excavation (in addition to field titrations). The results of this sampling are contained within the following data table.

May Soil Sample Laboratory Results

Iviay Con Carri	0.0 _0.0	· · · · · · · · · · · · · · · · · · ·	rtocarto						
Sample ID	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NMOCD Table 1 Closur	e Criteria 19.1	15.29 NMAC	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-2A Composite	5/17/2019	2							749
S-1A Composite	5/24/2019	1.5			12.4	12.8	ND	25.2	
S-5A Composite	5/24/2019	2			14	173	37.3	224.3	
S-6A Composite	5/24/2019	2			12.8	196	56.6	265.4	
S-7A Composite	5/24/2019	2			20.7	873	145	1038.7	
S-8A Composite	5/24/2019	3							2830
S-10A	5/24/2019	0.5			16.5	2250	392	2658.5	11700

ND= Analyte Not Detected, -- Analyte Not Tested

On June 19, 2019, a direct push sample rig (Geoprobe) was utilized to further vertically delineate the site, within accessible areas, the results of which can be found in the following data table.

6-19-19 Soil Sample Laboratory Results

Sample ID	Sample	Depth (BCS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
NMOCD 1	Date Table 1 Closur	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	9.15.29 NMA		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
		0-1	ND	ND	ND	75.2	37	112.2	6240
		2	ND	ND	ND	ND	ND	ND	3760
		3	ND	ND	ND	ND	ND	ND	11500
B-1	6/19/2019	4	ND	ND	ND	ND	ND	ND	9330
P-1	0/19/2019	5	ND	ND	ND	ND	ND	ND	6240
		6	ND	ND	ND	ND	ND	ND	6000
		7	ND	ND	ND	ND	ND	ND	6000
		8-Refusal	ND	ND	ND	ND	ND	ND	5600
		0-1	ND	ND	ND	35.4	26	61.4	96
		2	ND	ND	ND	ND	ND	ND	16
B-2	6/19/2019	3	ND	ND	ND	ND	ND	ND	80
		4	ND	ND	ND	ND	ND	ND	32
		5	ND	ND	ND	ND	ND	ND	48

ND= Analyte Not Detected

On March 17, 2020, Talon personnel returned to the site with an air rotary drill rig to vertically delineate the extent of the contamination within accessible areas. The results of our sampling event can be found in the following data table.

3-17-20 Soil Sampling Laboratory Results

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
	Table 1 Closur 9.15.29 NMA		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
B-3	3/17/2020	0	ND	ND	ND	ND	ND	ND	176
D-3	3/17/2020	2	ND	ND	ND	ND	ND	ND	144
		0	ND	ND	ND	ND	ND	ND	12000
		2	1.15	ND	47.7	1530	397	1974.7	736
B-	-4	4	5.09	0.072	121	2470	473	3064	128
		6	1.31	ND	30.4	610	93.4	733.8	80
		8	ND	ND	ND	12.2	ND	12.2	96
		0	ND	ND	ND	919	378	1297	208
B-	-6	2	ND	ND	ND	621	324	945	176
		4	ND	ND	ND	ND	ND	ND	160
D	-7	0	ND	ND	ND	ND	ND	ND	96
В-	-/	2	ND	ND	ND	ND	ND	ND	160

ND= Analyte Not Detected

### **Remedial Activities**

- Remediation activities within the tank battery were carefully handexcavated to depths as deep as practicable due to the presence of oil and gas infrastructure and the safety of on-site personnel.
- The impacted areas in the vicinity of sample locations S-10/B-1 and S-8 were hand-excavated to approximately 3-feet deep as not to compromise the structural integrity of the surrounding tanks.
- The impacted areas in the vicinity of sample locations S-5/B-2, S-6, and S-7/B-7 were hand-excavated to a depth of 2-feet BGS due to infrastructure such as suspended steel flowlines lines and equipment.
- The impacted area in the vicinity of sample location S-1/B-4 was machine excavated to a depth of 1.5-feet BGS.
- The impacted area in the vicinity of sample location S-2/B-3 was machine excavated to a depth of 2-feet BGS
- The backfilling activities were completed with newly obtained caliche, compacted, and contoured to match the surrounding location.
- All of the excavated material was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The reserve drilling pit was capped with a 20-mil liner and covered with 2-feet of locally obtained topsoil. The reclaimed area was seeded with BLM #1 and #2 seed mix utilizing a multi-pack seed drill. The seeding label is attached in Appendix V.
- The Final C-141 is appended hereto in Appendix III.

### **Deferral Closure**

On behalf of Devon Energy, we respectfully request that no further actions be required at this time and that a remediation deferral until facility closure with regard to these incidents 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

Chris K. Jones Project Manager David J. Adkins
District Manager

Attachments:

Appendix I Site Map, Karst Map, TOPO Map & Locator Map

Appendix II Soil Survey, USGS Groundwater Data & FEMA Flood Zone

Appendix III Initial & Final C-141

Appendix IV Photographic Documentation

Appendix V Seeding Label Appendix VI Laboratory Data



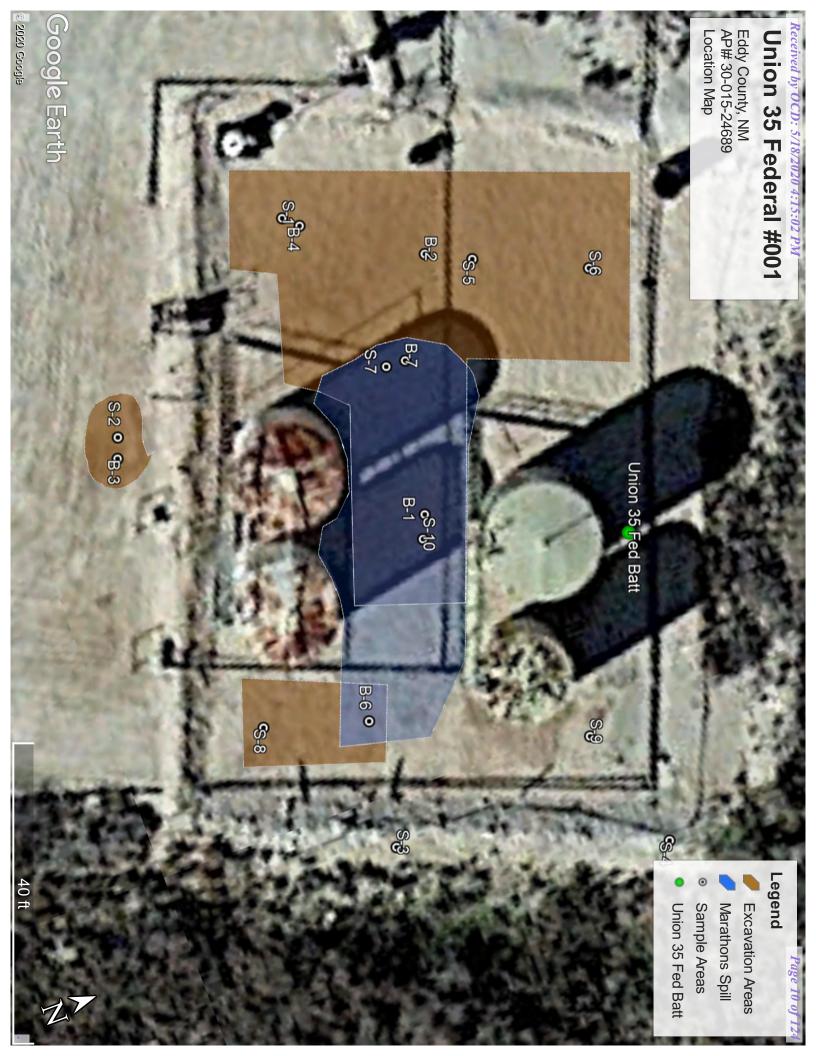
# <u>APPENDIX I</u>

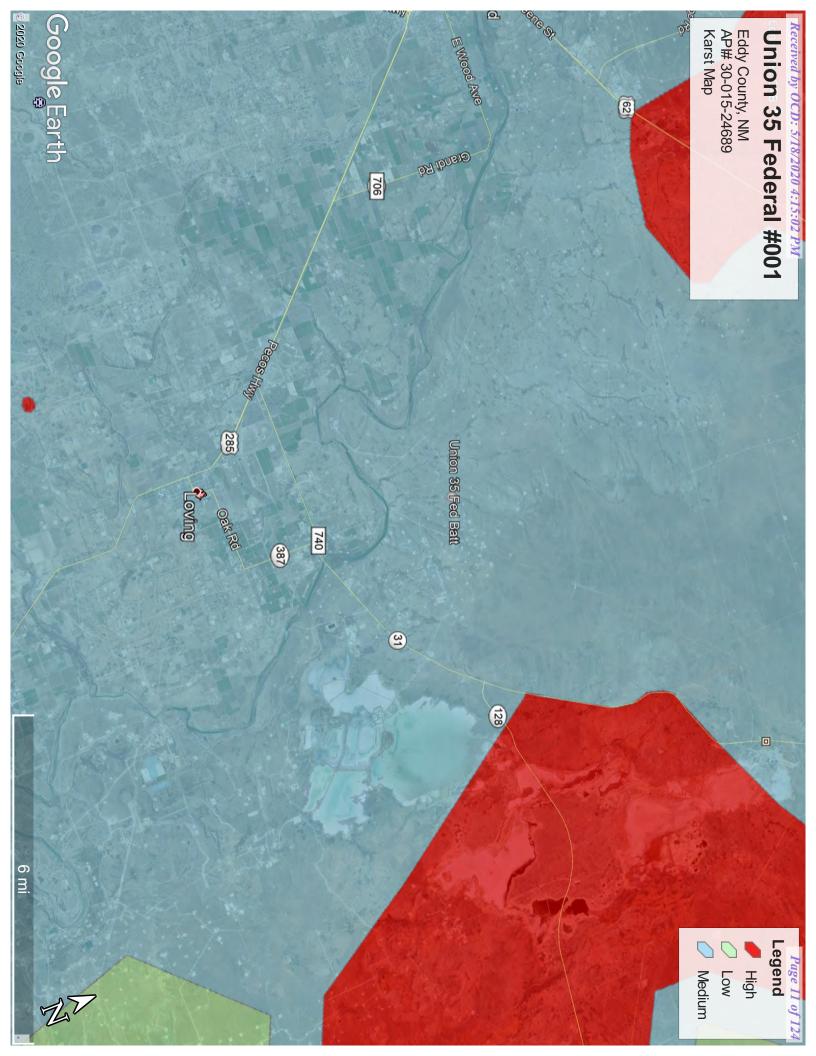
SITE MAP

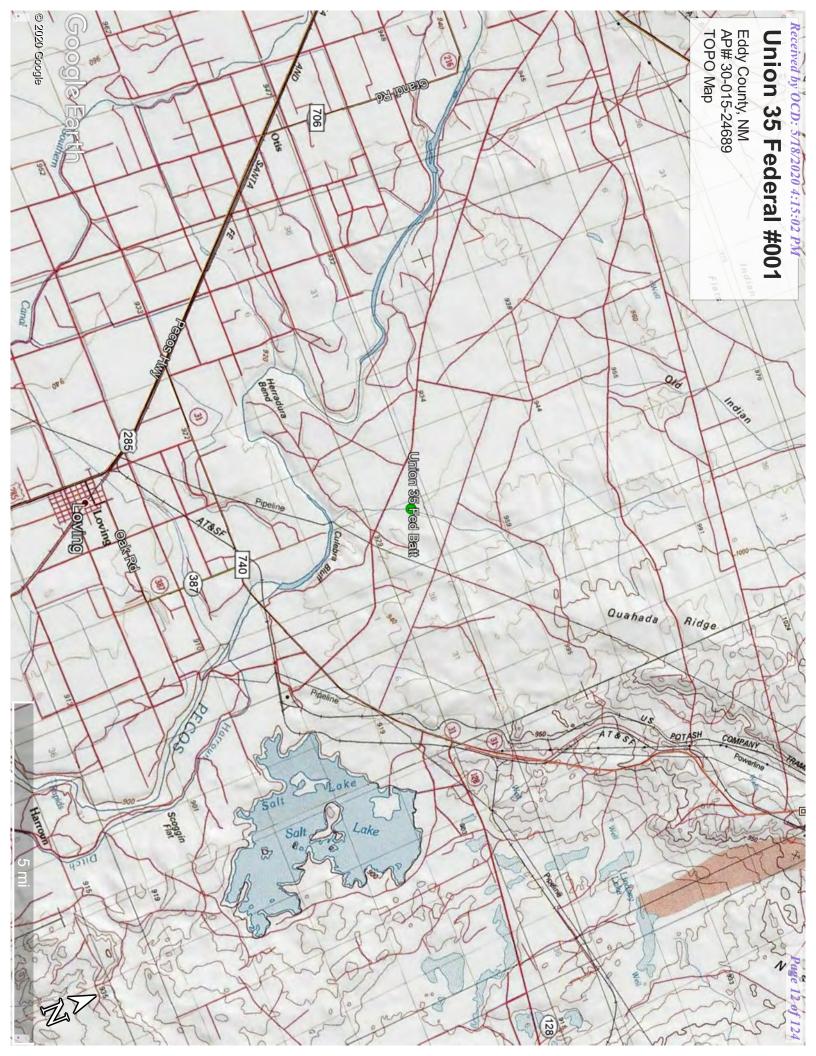
**KARST MAP** 

**TOPO MAP** 

**LOCATION MAP** 











# <u>APPENDIX II</u>

## **GROUNDWATER DATA**

**SOIL SURVEY** 

FEMA FLOOD ZONE



(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

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

(R=POD has been replaced, O=orphaned, C=the file is

POD

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		Cub		_	_	_								6.	200
POD Number	Code	Sub- basin	County		Q 16		Sec	Tws	Rng	Х	Υ	DistanceD	epthWellDep		Vater olumn
C 00512 CLW198323	0	CUB	ED	4	1	1	11	23S	28E	588167	3576806*	2987	100		
C 00512 S		CUB	ED	4	1	1	11	235	28E	588167	3576806*	2987	100		
C 00512		CUB	ED	4	1	1	11	238	28E	588188	3576775	3019	175	15	160
C 00512 EXPL	O	CUB	ED			1	11	238	28E	588272	3576703*	3098	200	16	184
C 04216 POD2		CUB	ED	1	4	1	11	238	28E	588465	3576555	3266	20	10	10
C 04216 POD3		CUB	ED	1	4	1	11	238	28E	588501	3576556	3271	23	13	10
C 04216 POD1		CUB	ED	2	4	1	11	238	28E	588488	3576534	3290	20	10	10
C 00109		CUB	ED	1	3	3	04	238	27E	588486	3576531	3293	168	120	48
C 04216 POD4		CUB	ED	2	4	7	11	235	28E	588499	3576513	3313	20	10	10
C 00608		C	ED	3	3	1	11	238	28E	587970	3576401*	3388	200		
C 00315		CUB	ED	3	1	3	11	238	28E	587973	3575995*	3794	100	45	55
C 00800		C	ED		4	2	09	238	28E	586050	3576479*	3843	200	30	170
C 00036		CUB	ED	3	3	2	32	228	28E	583916	3579583*	4092	106		
C 03469 POD1		CUB	ED	3	4	3	11	235	28E	588374	3575538	4266	68	38	30
C 03469 POD3		CUB	ED	3	4	3	11	238	28E	588381	3575538 🌇	4267	47		
C 03469 POD2		CUB	ED	3	4	3	11	238	28E	588382	3575506	4299	48		
C 00236		C	ED	2	2	3	32	228	28E	583723	3579372*	4300	80	39	41
C 00213		CUB	ED	1	4	1	32	228	28E	583517	3579775*	4486	200	35	165
C 00235		C	ED		2	2	15	238	28E	587676	3575280*	4521	160		
C 00326		CUB	ED	3	3	3	10	238	28E	586358	3575572*	4526	130	19	111
C 00326 CLW196238	0	CUB	ED	3	3	3	10	238	28E	586358	3575572*	4526	196	25	171
C 03094		C	ED	4	3	1	32	228	28E	583317	3579567*	4691	138	53	85
C 00214		CUB	ED	2	3	3	32	228	28E	583327	3578962*	4748	200		
C 03184		C	ED	2	3	3	32	228	28E	583327	3578962*	4748	157	30	127
C 00616		CUB	ED	1	3	1	14	238	28E	587982	3574978*	4811	120	30	90
C 03460 POD1		CUB	ED	3	1	2	14	238	28E	588857	3575004	4860	100	38	62
C 01216		CUB	ED	4	1	1	13	235	28E	589801	3575205*	4924	60	45	15
C 00321		С	ED		4	2	15	238	28E	587679	3574874*	4926	120		
C 02503		C	ED		4	2	15	235	28E	587679	3574874*	4926	70	12	58
C 00035		CUB	ED	3	3	3	32	228	28E	583127	3578762*	4983	146		
C 00212		CUB	ED	3	3	3	32	228	28E	583127	3578762*	4983	146	30	116
C 00212 CLW193874	0	CUB	ED	3	3	3	32	228	28E	583127	3578762*	4983			

Average Depth to Water: Minimum Depth:

31 feet 10 feet

Maximum Depth:

120 feet

Record Count:32

UTMNAD83 Radius Search (in meters):

Easting (X): 588003.177

Northing (Y): 3579789.434

Radius: 5000

\*UTM location was derived from PLSS - see Help

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

4/2/19 2:08 PM

WATER COLUMN/ AVERAGE DEPTH TO

WATER

Map Unit Description: Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded—Eddy Area, New Mexico

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

# SN—Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded

### Map Unit Setting

National map unit symbol: 1w5y Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 220 days
Farmland classification: Not prime farmland

### Map Unit Composition

Simona and similar soils: 45 percent Wink and similar soils: 40 percent Estimates are based on observations, descriptions, and transects of the mapunit.

### **Description of Simona**

### Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

### Typical profile

H1 - 0 to 19 inches: fine sandy loam H2 - 19 to 23 inches: indurated

### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Natural drainage class: Well drained

Runoff class: Very high

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

low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum 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: Very low (about 2.5 inches)

### Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Map Unit Description: Simona and Wink fine sandy loams, 0 to 3 percent slopes, eroded—Eddy Area, New Mexico

Ecological site: Shallow Sandy (R042XC002NM)

Hydric soil rating: No

### **Description of Wink**

### Setting

Landform: Depressions, swales

Landform position (three-dimensional): Talf

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

Parent material: Mixed alluvium and/or eolian sands

### Typical profile

H1 - 0 to 8 inches: fine sandy loam H2 - 8 to 38 inches: fine sandy loam

H3 - 38 to 60 inches: stratified gravelly variable

### 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: 30 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: Low (about 6.0 inches)

### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: Sandy (R042XC004NM)

Hydric soil rating: No

### **Minor Components**

### Dune land

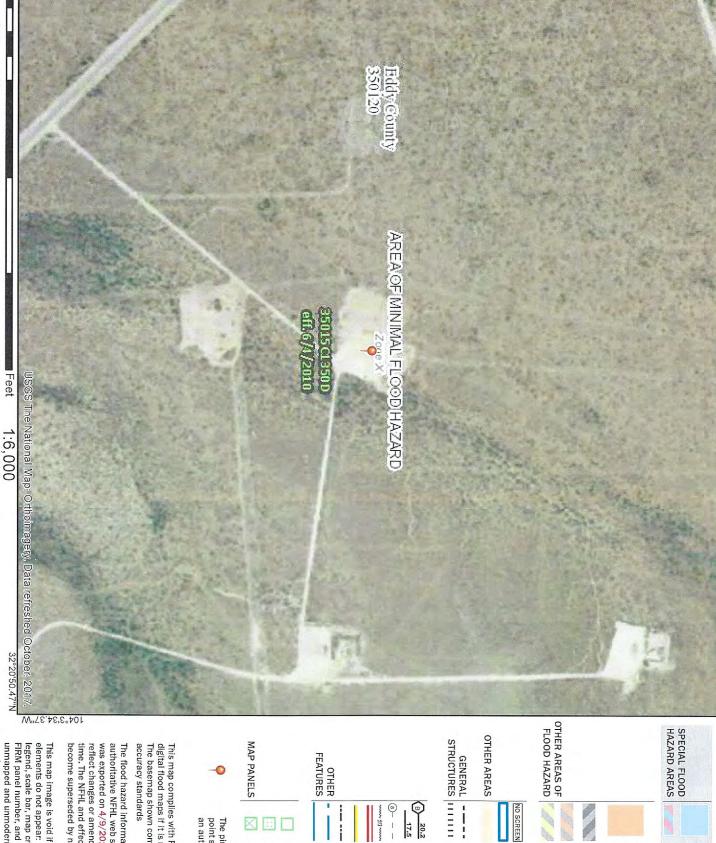
Percent of map unit: Hydric soil rating: No

### **Data Source Information**

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

# National Flood Hazard Layer FIRMette





Legend

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

SPECIAL FLOOD HAZARD AREAS

Regulatory Floodway With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE)
Zone A, V, A99



Future Conditions 1% Annual 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone



Chance Flood Hazard Zone X Levee. See Notes, Zone X Area with Reduced Flood Risk due to



Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X



Effective LOMRs





Area of Undetermined Flood Hazard Zone

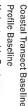
STRUCTURES | 1111111 Levee, Dike, or Floodwall Channel, Culvert, or Storm Sewer



Cross Sections with 1% Annual Chance Water Surface Elevation



Base Flood Elevation Line (BFE) Jurisdiction Boundary Limit of Study



Hydrographic Feature





Digital Data Available No Digital Data Available

Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

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

authoritative NFHL web services provided by FEMA. This map become superseded by new data over time. reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or was exported on 4/9/2019 at 4:19:11 PM and does not The flood hazard information is derived directly from the

Received by OCD: 5/18/2020 4:15:02 PM

250

500

1,000

1,500

2,000

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



# **APPENDIX III**

INITIAL C-141 & FINAL C-141 District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc. NM 87505

NM OIL CONSERVATION State of New Mexico

ARTESIA DISTRICT Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

MAR 0.3 12015 to appropriate District Office in accordance with 19.15.29 NMAC.

	dela Di., Galia	1 C. 14IVI 67303		·S	anta F	e, NM 875	05	RECEI	VED	- W
	1.5 - 1 - 1 - 2.		Rele	ase Notifi	catio	n and Co	rrective A	ction		
n ABIF	50-LP43L	plol(p.				OPERAT		Б	7 Initi	al Report  Final Re
Name of C	ompany De	evon Energy	Product	ion (1)	371	Contact R			A min	air report [] Tinar re
Address 64	488 Seven R	ivers Hwy	Artesia, N	VM 88220			No. 575.513.17	41	(41.20)	
-	me Union	35 Federal	#1 Batte	i,	4	Facility Typ	ie Oil			1
Surface O	wner BLM	ř.		Mineral	Owner	BLM			API N	o. 30-015-24689
				LOC	ATIO	OFREI	EASE			
Unit Letter E	Section 35E	Township 228	Range 28E	Feet from the 1780	North	/South Line FNL	Feet from the 660	East/We FW		County Eddy,
11				Latitud		Taractura A. C.	ongitude:			della
Type of Reli	ease Spill	) All		INA.	UKE	OF RELI		11	/oluma	Recovered
roduced w	ater	***			600 1 1 5 1	117 BBL	Release	74	50 BBL	
ource of R xploded an	elease Static d caught fire	electricity ca	aused the	water tank to		Date and I 9.19.2014	lour of Occurrent it 6:15		)ate and .19:201	l Hour of Discovery 4 6:20
Vas Immed	liate Notice (	S. O. C. September 1	Yes 🗌	No 🗌 Not R	equired	If YES, To OCD at 7: BLM at 7:	45 AM:			
y Whom?	Mike McMa	han				Date and I 9.20,2014 a			*11	A COLOR OF STREET
Vas a Wate	rcourse Rea		Yes 🖂	No			lume Impacting	the Wate	rcourse	
f a Waterco	ourse was Im	pacted, Desc	ribe Full	v.*						
Describe Ar- pm concerni was complet Foreman ha the vessels o cleanup prod egulations a bublic health should their co	ea Affected a ing a fire at t ely-burnt. To d arrived an n location. T cess. The tru ify that the in or the enviro operations ha	and Cleanup the Union 35 the fire depar d was in the the fire depar cks recovere formation give re required to ment. The we failed to ac dition, NMOO	Action T Battery. Iment fro process o rtment find d 250bbls en above report an acceptance idequately	aken.* Union Lease operator on La Huerta w f shutting in the hished extinguis s of produced w is true and comp e of a C-141 repe investigate and r	35 Fed ' precede (as alrea) is four puthing the ater/rain leter to the elease nor by the emediate	Tank Battery d to the locat dy on scene a imping units fire and left a water. te best of my biffications and NMOCD ma	Delaware Basinon arriving at 6 and were in the p that flow to the location. Two vacanowledge and und perform correct read as "Final Report that nose a three on the three of thre	n BU. Ass :30 pm. U process of battery. T actum tru nderstand, tive action	istant F  pon arr extingu  he leass acks wer that purs s for rel s not rel	BBL of produced water spille partment  oreman was contacted at 6:1 rival the produced water tank ishing the fire. Assistant e operator preceded to shut it re dispatched to begin the suant to NMOCD rules and eases which may endanger leve the operator of liability r, surface water, human health ompliance with any other
AND MAKES	or local laws		ations.		. 2 13		OIL CONS	SERVA	TION	DIVISION'
rinted Name	: Jeanette B	arron	165	3.		Approved by I	Environmental Sp	oecialist:	In	da
itle: Field A	Admin Suppo	ort		7		Approval Date	3 5 15	Exp	oiration.	Date: NIA
-mail Addre	ess: Jeanette.	barron@dvi	ı.com	· · · · · · · · · · · · · · · · · · ·		Conditions of				Attached
Date: 9.2	9.14	P	hone: 575	5.748.1813			per O.C.D. R			
Date, 1.2	J. (†	·	none: 5/5	2.(48.1813)	SUE		EDIATION E			

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

State of New Mexico
Energy Minerals and Natural Resources

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

ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

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

RECEIVED

NABI.	73202	6330	Rele	ease Notifi	cation	and Co	orrective A	ction	Initi	ial Report	Final Repor
Name of Co	ompany D	evon Energy	Product	ion Company /	0/37		esley Ryan, Pro				1 Tillai Kepoi
		Rivers Hwy	Artesia,	NM 88210			No. 575-390-54				
Facility Na	me Union	35 Fed 1				Facility Typ	oe Oil				
Surface Ov	ner Federa	al		Mineral (	Owner F	ederal			API No	o. 30-015-24689	)
				LOC	ATION	OF RE	LEASE				
Unit Letter E	Section 35	Township 22S	Range 28E	Feet from the 1780'		South Line	Feet from the 660'	East/Wes FWL	t Line	County Eddy	
						2001100	)4.06430 NAD8	33			
Type of Rele	1000			NAT	CURE	OF REL		127			
Produced W						Volume of 5.2bbls	Release	10.750	olume . obls	Recovered	
Source of Re							Hour of Occurrence			Hour of Discover	ry
Tanks						October 20 MST	5, 2017 @ 10:00 A			26, 2017 @ 10:00	
Was Immedi	ate Notice (		Yes [	No Not R	equired	If YES, To Shelly Tuo		eaver OCT	·		-
By Whom?						Date and I		caver, occ			
Wesley Ryan							7, 2017 @ 6:23 A		-		
Was a Water	course Read	ched?	Yes 🗵	] No		If YES, Vo	olume Impacting	the Waterco	ourse.		
If a Waterco N/A	urse was Im	pacted, Descr	ibe Fully.	*							
The battery i	s on a scheoly 5.2 bbls of	of produced w	and the pr	oduced water hau	ller did n nt around	ot pick up a lithe tanks.	load of water in ti The release stayed	me. The wa l on the loca	ter tank ation ar	k ran over and rele ad a vacuum truck	eased began
Approximate	ely 5.2bbls p	and Cleanup produced water ironmental co	r was rele	ased into the eart	hen conta o assist v	ainment. A vivith the delir	vacuum truck was leation and remed	dispatched	and rec	covered approximoad surface.	ately 4 bbls of
regulations a public health should their or the enviro	all operators or the envi operations bonment. In a	are required to ronment. The nave failed to	o report as acceptanadequately OCD accep	nd/or file certain a ce of a C-141 rep investigate and	release no ort by the remediate	otifications a e NMOCD n e contaminat	nd perform correct parked as "Final R ion that pose a thr	ctive actions Report" does reat to groun	s for res	rsuant to NMOCD leases which may lieve the operator er, surface water, be compliance with a	endanger of liability numan health
							OIL CON	SERVA	TION	DIVISION	
Signature: S	Sheila Fishei							, 6	11		
Printed Nam	e: Sheila F	isher				Approved by	Environmental 8	payialist.	14 1	Summercan-	
Title: Field	Admin Sup	port				Approval Da	te: 1114117	Exp	oiration	Date: NH	
E-mail Addr	ess: Sheila.	Fisher@dvn.	com			Conditions o	f Approval:			Attached _	
Date: 11/2/		ets If Necess		: 575.748.1829			See atta	ached		arpi	1481

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc, 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	2RP-5507
Facility ID	
Application ID	pAB1918455511

### Release Notification

### Responsible Party

Responsible	Party Devoi	n Energy Produc	tion Energy	OGRID6	137			
Contact Nam	<sup>ie</sup> Amanda	T. Davis		Contact Telephone 575-748-0176				
Contact emai	<sup>il</sup> amanda.	.davis@dvn.cor	n	Incident # (assigned by OCD)				
Contact mail	ing address	6488 Seven Riv	vers Hwy					
	.35157		Location	of Release So  Longitude  imal degrees to 5 decin	-104.0647507			
Site Name Ur	nion 35 Ba	nttery #001		Site Type	Dil			
Date Release	Discovered	11/19/2018			olicable) 3001524689			
				•				
Unit Letter	Section	Township	Range	Coun	ity			
E	35	228	28E	Edo	ly			
urface Owner		■ Federal 🔲 Tri	Nature and	Volume of 1				
urface Owner	Materia		Nature and	Volume of 1	justification for the volumes provided below)  Volume Recovered (bbls)			
Crude Oil	Materia	ıl(s) Released (Select all	Nature and that apply and attach ed (bbls)	Volume of 1	justification for the volumes provided below)			
Crude Oil	Materia	Volume Released  Volume Released  Volume Released	Nature and that apply and attach of the (bbls) the (bbls) of the control of total dissolves	Volume of 1	justification for the volumes provided below)  Volume Recovered (bbls)			
Crude Oil	Materia Water	Volume Released  Volume Released  Volume Released	Nature and that apply and attach of d (bbls) d (bbls) g ion of total dissolve vater >10,000 mg/	Volume of 1	volume Recovered (bbls)  Volume Recovered (bbls)			
Crude Oil	Materia Water	Volume Released  Volume Released  Volume Released  Is the concentration the produced volume and the concentration.	Nature and that apply and attach of d (bbls) d (bbls) g ion of total dissolv vater >10,000 mg/ d (bbls)	Volume of 1	Volume Recovered (bbls)   Volume Recovered (bbls)   Volume Recovered (bbls) 7   Yes  No			
Crude Oil Produced Condensa	Materia Water water	Volume Released  Is the concentration the produced volume Released  Volume Released  Volume Released	Nature and that apply and attach of d (bbls) d (bbls) g ion of total dissolv vater >10,000 mg/ d (bbls)	Volume of l	Volume Recovered (bbls)   Volume Recovered (bbls)   Yes No   No   Volume Recovered (bbls)   Volume Recovered (bbls)   Volume Recovered (bbls)   Volume Recovered (bbls)			

Form C-141 Page 2

# State of New Mexico Oil Conservation Division

Incident ID	NAB1918455869
District RP	2RP-5507
Facility ID	
Application ID	pAB1918455511

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 n	otice given to the OCD? By whom?	To whom? When and by what means (phone, email, etc)?
	Initi	al Response
The responsible	party must undertake the following actions im	mediately unless they could create a safety hazard that would result in injury
The source of the rel	ease has been stopped.	
	is been secured to protect human heal	th and the environment.
		ms or dikes, absorbent pads, or other containment devices.
the state of the s	ecoverable materials have been remo	
has begun, please attach within a lined containme	a narrative of actions to date. If remeter area (see 19.15.29.11(A)(5)(a) NM	nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.
has begun, please attach within a lined containmed hereby certify that the inforcegulations all operators are public health or the environ failed to adequately investigaddition, OCD acceptance of and/or regulations.	a narrative of actions to date. If rem nt area (see 19.15.29.11(A)(5)(a) NM rmation given above is true and complete required to report and/or file certain relea- ment. The acceptance of a C-141 report b- tate and remediate contamination that pos- if a C-141 report does not relieve the oper-	to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In actor of responsibility for compliance with any other federal, state, or local laws
nas begun, please attach within a lined containment hereby certify that the inforcegulations all operators are public health or the environ failed to adequately investigued addition, OCD acceptance of and/or regulations.  Printed Name: Kendi	a narrative of actions to date. If rem the area (see 19.15.29.11(A)(5)(a) NM remation given above is true and complete required to report and/or file certain releasement. The acceptance of a C-141 report be the and remediate contamination that post if a C-141 report does not relieve the open a DeHoyos	nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.  It to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have a a threat to groundwater, surface water, human health or the environment. In actor of responsibility for compliance with any other federal, state, or local laws  Title: EHS Associate
nas begun, please attach within a lined containment hereby certify that the informations all operators are public health or the environ failed to adequately investigaddition, OCD acceptance of and/or regulations.  Printed Name: Kendra I Signature:	a narrative of actions to date. If remet area (see 19.15.29.11(A)(5)(a) NM immation given above is true and complete required to report and/or file certain releasement. The acceptance of a C-141 report between and remediate contamination that post if a C-141 report does not relieve the open a C-141 report does not relieve the open a DeHoyos  DeBady aspects by Kenera Detroyce  DeHoyos  Depart aspects by Kenera Detroyce  DeHoyos  Delays aspects by Kenera Detroyce  Delays aspects	nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.  It to the best of my knowledge and understand that pursuant to OCD rules and use notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In atter of responsibility for compliance with any other federal, state, or local laws  Title: EHS Associate  Date: 12/10/2018
has begun, please attach within a lined containment thereby certify that the inforcegulations all operators are public health or the environgaled to adequately investigued to adequately investigued to adequate the public regulations.  Printed Name: Kendra Signature:	a narrative of actions to date. If rem the area (see 19.15.29.11(A)(5)(a) NM remation given above is true and complete required to report and/or file certain releasement. The acceptance of a C-141 report be the and remediate contamination that post if a C-141 report does not relieve the open a DeHoyos	nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.  It to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have a a threat to groundwater, surface water, human health or the environment. In actor of responsibility for compliance with any other federal, state, or local laws  Title: EHS Associate
has begun, please attach within a lined containment of the containment	a narrative of actions to date. If remet area (see 19.15.29.11(A)(5)(a) NM immation given above is true and complete required to report and/or file certain releasement. The acceptance of a C-141 report between and remediate contamination that post if a C-141 report does not relieve the open a C-141 report does not relieve the open a DeHoyos  DeBady aspects by Kenera Detroyce  DeHoyos  Depart aspects by Kenera Detroyce  DeHoyos  Delays aspects by Kenera Detroyce  Delays aspects	nedial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.  It to the best of my knowledge and understand that pursuant to OCD rules and use notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In attent of responsibility for compliance with any other federal, state, or local laws  Title: EHS Associate  Date: 12/10/2018

District I
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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 Marathon Oil Permian LLC	OGRID 372098	
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753	
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)	
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220		

			Locatio	n of Rel	ease Sourc	e		
Latitude 32.3	<u>3474083</u>		Longitude (NAD 83 in		04.0603409 es to 5 decimal place	es)		
Site Name U	nion 35 Fed	eral CTB		S	ite Type Central	l Tank Battery		
Date Release Discovered 1/27/2020			A	API# (if applicable)	N/A			
Unit Letter	Section	Township	Range		County			
F	35	22S	28E	Eddy	<u> </u>			
Crude Oi		al(s) Released (Select Volume Releas	all that apply and atta					
Produced						ime Recovered (I		
Z Troducec	Is the concentration of dissolved chloride produced water >10,000 mg/l?		d chloride in		Yes No			
Condensa	ate	Volume Released (bbls)		Volu	Volume Recovered (bbls)			
Natural C	Gas	Volume Released (Mcf)		Volu	ıme Recovered (	Mcf)		
Other (de	Other (describe) Volume/Weight Released (provide units)		ride units)	Volu	ıme/Weight Reco	overed (provide	units)	
Cause of Rel	lease	<u> </u>			I			

Release was the result of a tank overflow – tank gauges were used to calculate release volume (attached) . None of the release was able to be recovered but was contained within the berms on the engineered pad.

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			_

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 respons	ible party consider this a major release?
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area has	s been secured to protect human health and t	ne environment.
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:
No free liquids upon disco	overy	
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigations.	required to report and/or file certain release notifinent. The acceptance of a C-141 report by the OC ate and remediate contamination that pose a threa	est of my knowledge and understand that pursuant to OCD rules and cations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Mele	odie Sanjari	Title: Environmental Professional
Signature:Melod	<u>lie Sanjari</u>	Date: 2/17/2020
email: <u>msanjari@marat</u>	thonoil.com	Telephone: <u>575-988-8753</u>
OCD Only		
Received by:		Date:

Received by OCD: 5/18/2020 4:15:02 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Fuge 2/ 0j 12
Incident ID	
District RP	
Facility ID	NM-NM19601
Application ID	

### **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	15_ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vo	ertical extents of soil

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

Characterization Report Checklist: Each of the following items must be included in the report.
Characterization report Checking. Such of the John wing words must be measured in the Copyright
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
☐ Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☐ Boring or excavation logs
□ Photographs including date and GIS information
☐ Topographic/Aerial maps
☐ Laboratory data including chain of custody

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

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Incident ID	
District RP	
Facility ID	NM-NM19601
Application ID	

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	1 1180 217 01 12
Incident ID	nAB1506436616
District RP	
Facility ID	NM-NM19601
Application ID	

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.		
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.	
☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
☐ Extents of contamination must be fully delineated.		
☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chris Jones	Title: Project Manager	
Signature: Chris Jones	Date: 4-22-20	
email: cjones@talonlpe.com	Telephone: 575-748-8768	
OCD Only		
Received by: Cristina Eads	Date: _05/18/2020	
☐ Approved ☐ Approved with Attached Conditions of	Approval	
Signature: Justus 2	Date: 06/09/2020	

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Incident ID	
District RP	
Facility ID	NM-NM19601
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.

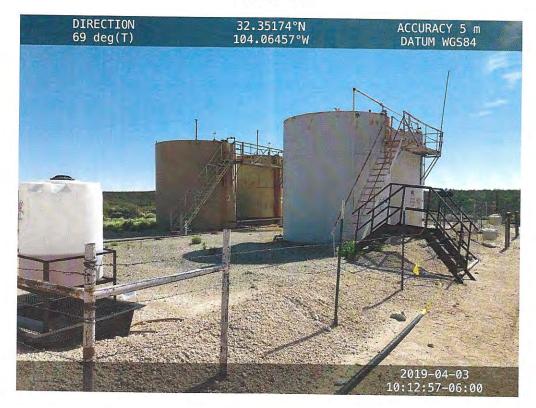
	d in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: ap	opropriate ODC District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
and regulations all operators are required to report an may endanger public health or the environment. The hould their <i>operations</i> have failed to adequately in tuman health or the environment. In addition, OCD compliance with any other federal, state, or local law estore, reclaim, and re-vegetate the impacted surface	the and complete to the best of my knowledge and understand that pursuant to OCD rules d/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability investigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for s and/or regulations. The responsible party acknowledges they must substantially area to the conditions that existed prior to the release or their final land use in cation to the OCD when reclamation and re-vegetation are complete.			
Printed Name: Chris Jones	Title: Project Manager			
Signature: Chris Jones	Date: 4-22-20			
email: <u>cjones@talonlpe.com</u>	Telephone: 575-748-8768			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the esponsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date:			
Printed Name:	Title:			
_				

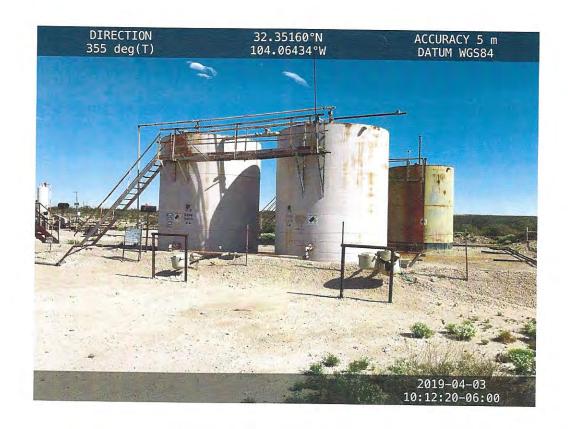


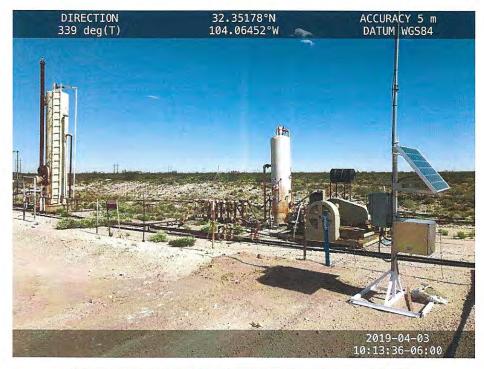
# **APPENDIX IV**

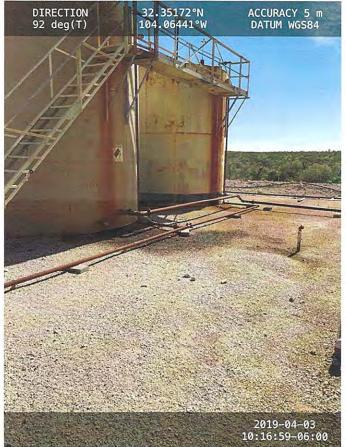
# PHOTOGRAPHIC DOCUMENTATION

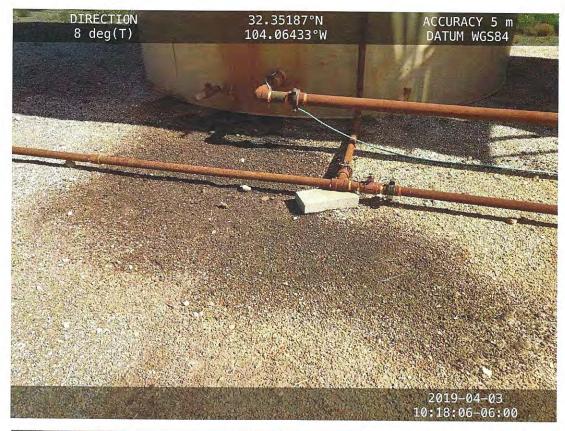
### Before

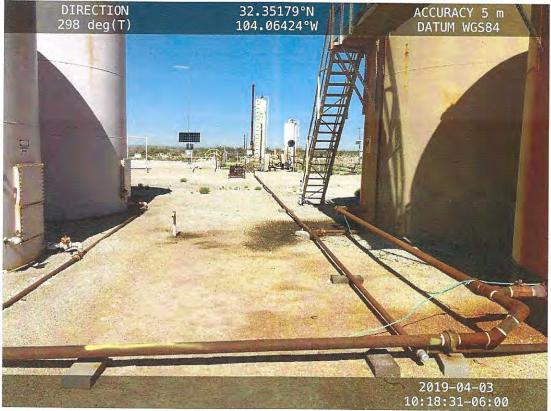


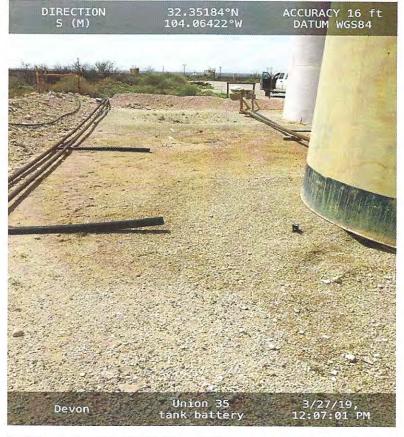


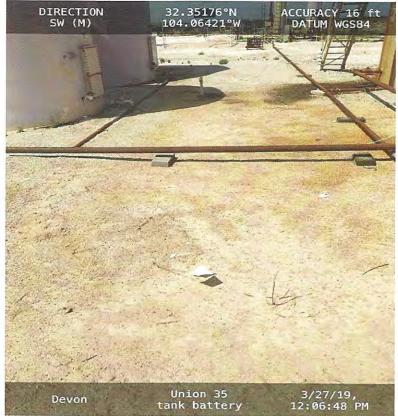




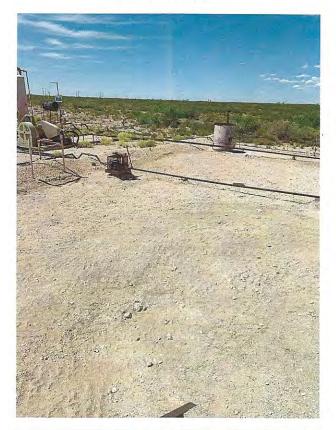




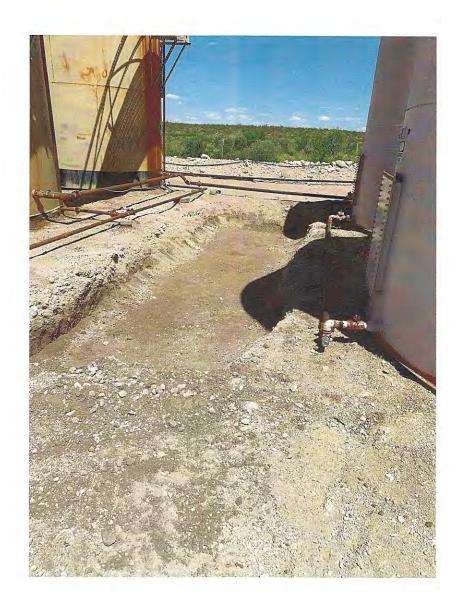




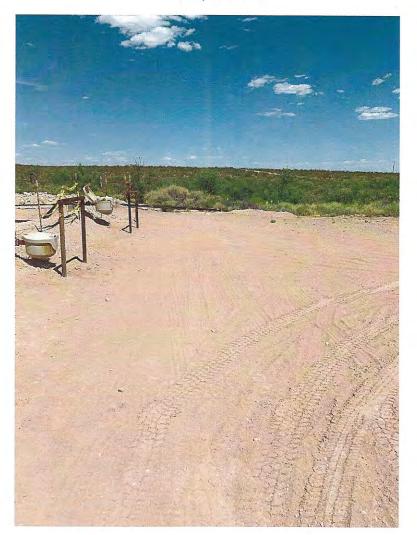
### Excavations

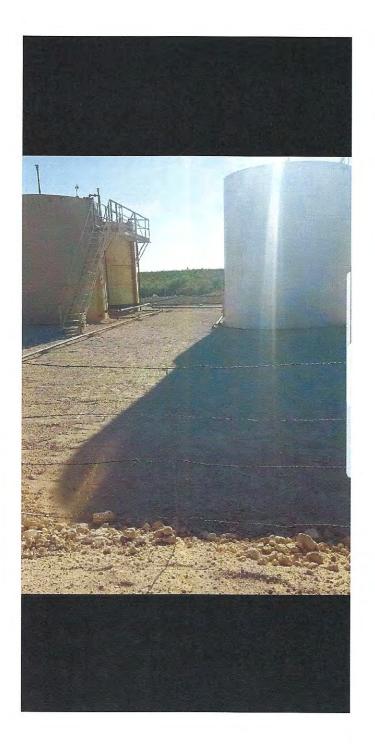


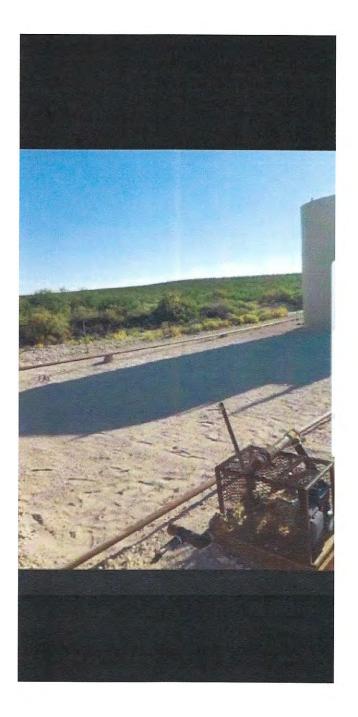




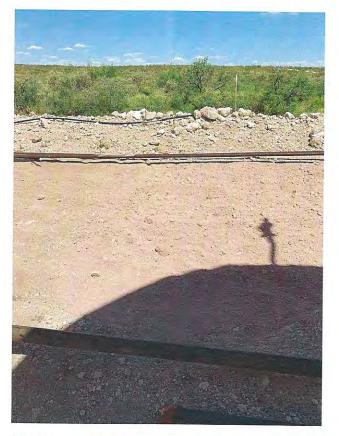
Completed







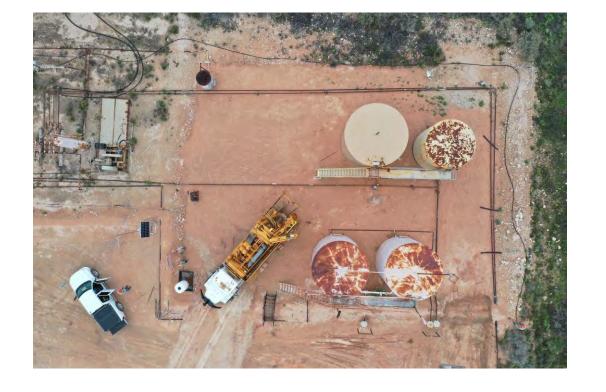






### **Boring Samples**







# <u>APPENDIX V</u>

# **SEEDING LABEL**

Curtis and Curtis Seed O North Prince Phos. NM 88101 www. 575) 762-4759 seed.com

Talon / LPE, LTD
3 1/2 acres of BLM 1 & 2 Mix, Broadcast Rela
3 - 1 Acre Bags @ 28.33 Bulk Younds Each
1 - 0.50 Acre Bag @ 14.16 Bulk Peunds

Lot# M-1525

<u>Item</u>	On	runity	Germ	Dormant .	To a Germination	Test Date	Total PLS Pounds
Sand Dropseed	Stated	15 69%	14.00%	76.00%	90.03%	11/17	14.00
Niner Niner	-Colorado	40.87%	95.00%	0.00%	95.00%	02/18	38.50
Plains Bristiegra Variety Not S	itated	30.709	54.00%	38.00%	92.00%	11/17	28.00
Sand Lovegrass Bend	Texas	7.51%	87.00%	7.00%	94.00%	10/17	7.00
Other Crop: Weed Seed: Inert Matter:	0.10% Th	re Are → Di is Aag Weig	hs 28.33 Bu	s Mix ilk Pounds	local Bulk F	ounds:	99.15



# <u>APPENDIX VI</u>

# LABORATORY DATA



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

OrderNo.: 1904364

April 22, 2020

**David Adkins** 

Talon LPE 921 N. Bivins

Amarillo, TX 79107-6806

TEL: (806) 467-0607 FAX: (806) 467-0622

RE: Devon Union 35A Fed Battery 1

Dear David Adkins:

Hall Environmental Analysis Laboratory received 16 sample(s) on 4/5/2019 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

Inly

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-1 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 9:30:00 AM

 Lab ID:
 1904364-001
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	400	60		mg/Kg	20	4/11/2019 2:42:28 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	Irm
Diesel Range Organics (DRO)	560	100		mg/Kg	10	4/11/2019 11:58:27 AM	44265
Motor Oil Range Organics (MRO)	4900	500		mg/Kg	10	4/11/2019 11:58:27 AM	44265
Surr: DNOP	0	70-130	S	%Rec	10	4/11/2019 11:58:27 AM	44265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/11/2019 11:16:27 PM	44225
Surr: BFB	85.8	73.8-119		%Rec	1	4/11/2019 11:16:27 PM	44225
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	4/11/2019 11:16:27 PM	44225
Toluene	ND	0.047		mg/Kg	1	4/11/2019 11:16:27 PM	44225
Ethylbenzene	ND	0.047		mg/Kg	1	4/11/2019 11:16:27 PM	44225
Xylenes, Total	ND	0.095		mg/Kg	1	4/11/2019 11:16:27 PM	44225
Surr: 4-Bromofluorobenzene	84.8	80-120		%Rec	1	4/11/2019 11:16:27 PM	44225

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

Qualifiers:

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

mple pH Not In Range
Propring Limit Page 1 of 21

Client Sample ID: S-2 0'

Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE

**Project:** Devon Union 35A Fed Battery 1 **Collection Date:** 4/3/2019 9:40:00 AM

**Lab ID:** 1904364-002 **Matrix:** SOIL **Received Date:** 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	2400	60	Ε	mg/Kg	20	4/11/2019 2:54:52 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	Irm
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/11/2019 4:25:06 PM	44265
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/11/2019 4:25:06 PM	44265
Surr: DNOP	93.0	70-130		%Rec	1	4/11/2019 4:25:06 PM	44265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/11/2019 11:39:44 PM	44225
Surr: BFB	88.8	73.8-119		%Rec	1	4/11/2019 11:39:44 PM	44225
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.023		mg/Kg	1	4/11/2019 11:39:44 PM	44225
Toluene	ND	0.046		mg/Kg	1	4/11/2019 11:39:44 PM	44225
Ethylbenzene	ND	0.046		mg/Kg	1	4/11/2019 11:39:44 PM	44225
Xylenes, Total	ND	0.092		mg/Kg	1	4/11/2019 11:39:44 PM	44225
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	4/11/2019 11:39:44 PM	44225

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon LPE Client Sample ID: S-2 1'

Collection Date: 4/3/2019 9:45:00 AM **Project:** Devon Union 35A Fed Battery 1 1904364-003 **Received Date:** 4/5/2019 8:45:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1100	60	mg/Kg	20	4/11/2019 3:32:05 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/11/2019 4:49:36 PM	44265
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/11/2019 4:49:36 PM	44265
Surr: DNOP	98.9	70-130	%Rec	1	4/11/2019 4:49:36 PM	44265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/12/2019 12:03:08 AM	44225
Surr: BFB	92.1	73.8-119	%Rec	1	4/12/2019 12:03:08 AM	44225
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	4/12/2019 12:03:08 AM	44225
Toluene	ND	0.047	mg/Kg	1	4/12/2019 12:03:08 AM	44225
Ethylbenzene	ND	0.047	mg/Kg	1	4/12/2019 12:03:08 AM	44225
Xylenes, Total	ND	0.094	mg/Kg	1	4/12/2019 12:03:08 AM	44225
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	4/12/2019 12:03:08 AM	44225

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-2 2'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 9:50:00 AM

 Lab ID:
 1904364-004
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride 490 59 mg/Kg 20 4/11/2019 3:44:30 PM 44293 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm Diesel Range Organics (DRO) ND 9.8 mg/Kg 4/12/2019 11:33:42 AM 44265 Motor Oil Range Organics (MRO) ND 4/12/2019 11:33:42 AM 44265 49 mg/Kg 1 Surr: DNOP 89.7 4/12/2019 11:33:42 AM 44265 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 4/12/2019 12:26:47 AM 44225 Gasoline Range Organics (GRO) ND 4.8 mg/Kg Surr: BFB 89.4 73.8-119 %Rec 4/12/2019 12:26:47 AM 44225 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.024 4/12/2019 12:26:47 AM 44225 Benzene mg/Kg Toluene ND 0.048 mg/Kg 4/12/2019 12:26:47 AM 44225 Ethylbenzene ND 0.048 mg/Kg 4/12/2019 12:26:47 AM 44225 Xylenes, Total ND 0.097 mg/Kg 4/12/2019 12:26:47 AM 44225 Surr: 4-Bromofluorobenzene 4/12/2019 12:26:47 AM 44225 88.8 80-120 %Rec

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-3 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 10:10:00 AM

 Lab ID:
 1904364-007
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	59		mg/Kg	20	4/11/2019 4:21:43 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: Irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/12/2019 12:39:48 PM	44265
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/12/2019 12:39:48 PM	44265
Surr: DNOP	68.0	70-130	S	%Rec	1	4/12/2019 12:39:48 PM	44265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/12/2019 1:37:19 AM	44225
Surr: BFB	92.6	73.8-119		%Rec	1	4/12/2019 1:37:19 AM	44225
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	4/12/2019 1:37:19 AM	44225
Toluene	ND	0.049		mg/Kg	1	4/12/2019 1:37:19 AM	44225
Ethylbenzene	ND	0.049		mg/Kg	1	4/12/2019 1:37:19 AM	44225
Xylenes, Total	ND	0.097		mg/Kg	1	4/12/2019 1:37:19 AM	44225
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	4/12/2019 1:37:19 AM	44225

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

Qualifiers:

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

ole pH Not In Range Page 5 of 21

Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-3 1'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 10:15:00 AM

 Lab ID:
 1904364-008
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/11/2019 4:34:07 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/12/2019 1:04:04 PM	44265
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/12/2019 1:04:04 PM	44265
Surr: DNOP	82.8	70-130	%Rec	1	4/12/2019 1:04:04 PM	44265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/12/2019 2:00:50 AM	44225
Surr: BFB	89.2	73.8-119	%Rec	1	4/12/2019 2:00:50 AM	44225
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	4/12/2019 2:00:50 AM	44225
Toluene	ND	0.048	mg/Kg	1	4/12/2019 2:00:50 AM	44225
Ethylbenzene	ND	0.048	mg/Kg	1	4/12/2019 2:00:50 AM	44225
Xylenes, Total	ND	0.097	mg/Kg	1	4/12/2019 2:00:50 AM	44225
Surr: 4-Bromofluorobenzene	87.7	80-120	%Rec	1	4/12/2019 2:00:50 AM	44225

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-4 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 10:25:00 AM

 Lab ID:
 1904364-009
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/11/2019 4:46:32 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/12/2019 1:26:10 PM	44265
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/12/2019 1:26:10 PM	44265
Surr: DNOP	83.2	70-130	%Rec	1	4/12/2019 1:26:10 PM	44265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/12/2019 2:47:49 AM	44225
Surr: BFB	93.0	73.8-119	%Rec	1	4/12/2019 2:47:49 AM	44225
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	4/12/2019 2:47:49 AM	44225
Toluene	ND	0.047	mg/Kg	1	4/12/2019 2:47:49 AM	44225
Ethylbenzene	ND	0.047	mg/Kg	1	4/12/2019 2:47:49 AM	44225
Xylenes, Total	ND	0.093	mg/Kg	1	4/12/2019 2:47:49 AM	44225
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	4/12/2019 2:47:49 AM	44225

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-4 1'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 10:30:00 AM

 Lab ID:
 1904364-010
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/11/2019 4:58:57 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/12/2019 11:05:56 AM	44265
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/12/2019 11:05:56 AM	44265
Surr: DNOP	112	70-130	%Rec	1	4/12/2019 11:05:56 AM	44265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/12/2019 3:11:25 AM	44225
Surr: BFB	88.8	73.8-119	%Rec	1	4/12/2019 3:11:25 AM	44225
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	4/12/2019 3:11:25 AM	44225
Toluene	ND	0.047	mg/Kg	1	4/12/2019 3:11:25 AM	44225
Ethylbenzene	ND	0.047	mg/Kg	1	4/12/2019 3:11:25 AM	44225
Xylenes, Total	ND	0.093	mg/Kg	1	4/12/2019 3:11:25 AM	44225
Surr: 4-Bromofluorobenzene	87.8	80-120	%Rec	1	4/12/2019 3:11:25 AM	44225

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-5 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 10:45:00 AM

 Lab ID:
 1904364-011
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	4/11/2019 5:11:22 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	61	9.9	mg/Kg	1	4/12/2019 11:30:55 AM	44265
Motor Oil Range Organics (MRO)	200	50	mg/Kg	1	4/12/2019 11:30:55 AM	44265
Surr: DNOP	85.7	70-130	%Rec	1	4/12/2019 11:30:55 AM	44265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/12/2019 3:34:43 AM	44225
Surr: BFB	88.5	73.8-119	%Rec	1	4/12/2019 3:34:43 AM	44225
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/12/2019 3:34:43 AM	44225
Toluene	ND	0.048	mg/Kg	1	4/12/2019 3:34:43 AM	44225
Ethylbenzene	ND	0.048	mg/Kg	1	4/12/2019 3:34:43 AM	44225
Xylenes, Total	ND	0.096	mg/Kg	1	4/12/2019 3:34:43 AM	44225
Surr: 4-Bromofluorobenzene	87.9	80-120	%Rec	1	4/12/2019 3:34:43 AM	44225

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Talon LPE Client Sample ID: S-6 0'

**Collection Date:** 4/3/2019 10:55:00 AM **Project:** Devon Union 35A Fed Battery 1 1904364-012 **Received Date:** 4/5/2019 8:45:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	69	60		mg/Kg	20	4/11/2019 5:23:46 PM	44293
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: Irm
Diesel Range Organics (DRO)	2300	500		mg/Kg	50	4/11/2019 1:11:32 PM	44265
Motor Oil Range Organics (MRO)	4000	2500		mg/Kg	50	4/11/2019 1:11:32 PM	44265
Surr: DNOP	0	70-130	S	%Rec	50	4/11/2019 1:11:32 PM	44265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/12/2019 3:58:14 AM	44225
Surr: BFB	85.4	73.8-119		%Rec	1	4/12/2019 3:58:14 AM	44225
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.023		mg/Kg	1	4/12/2019 3:58:14 AM	44225
Toluene	ND	0.046		mg/Kg	1	4/12/2019 3:58:14 AM	44225
Ethylbenzene	ND	0.046		mg/Kg	1	4/12/2019 3:58:14 AM	44225
Xylenes, Total	ND	0.093		mg/Kg	1	4/12/2019 3:58:14 AM	44225
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	4/12/2019 3:58:14 AM	44225

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-7 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 11:10:00 AM

 Lab ID:
 1904364-013
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	4/11/2019 6:00:59 PM	44293
EPA METHOD 8015D MOD: GASOLINE RANGE	<b>.</b>					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2019 4:18:29 PM	44226
Surr: BFB	103	70-130		%Rec	1	4/11/2019 4:18:29 PM	44226
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	: Irm
Diesel Range Organics (DRO)	1800	98		mg/Kg	10	4/11/2019 1:50:24 PM	44265
Motor Oil Range Organics (MRO)	3200	490		mg/Kg	10	4/11/2019 1:50:24 PM	44265
Surr: DNOP	0	70-130	S	%Rec	10	4/11/2019 1:50:24 PM	44265
EPA METHOD 8260B: VOLATILES SHORT LIST	Т					Analyst	RAA
Benzene	ND	0.025		mg/Kg	1	4/11/2019 4:18:29 PM	44226
Toluene	ND	0.050		mg/Kg	1	4/11/2019 4:18:29 PM	44226
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2019 4:18:29 PM	44226
Xylenes, Total	ND	0.10		mg/Kg	1	4/11/2019 4:18:29 PM	44226
Surr: 1,2-Dichloroethane-d4	83.1	70-130		%Rec	1	4/11/2019 4:18:29 PM	44226
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/11/2019 4:18:29 PM	44226
Surr: Dibromofluoromethane	89.8	70-130		%Rec	1	4/11/2019 4:18:29 PM	44226
Surr: Toluene-d8	94.6	70-130		%Rec	1	4/11/2019 4:18:29 PM	44226

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-8 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 11:20:00 AM

 Lab ID:
 1904364-014
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	19000	1500	mg/Kg	500	0 4/12/2019 10:11:06 AM	44293
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/11/2019 5:44:29 PM	44226
Surr: BFB	102	70-130	%Rec	1	4/11/2019 5:44:29 PM	44226
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/12/2019 11:55:06 AM	44265
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/12/2019 11:55:06 AM	44265
Surr: DNOP	109	70-130	%Rec	1	4/12/2019 11:55:06 AM	44265
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	4/11/2019 5:44:29 PM	44226
Toluene	ND	0.048	mg/Kg	1	4/11/2019 5:44:29 PM	44226
Ethylbenzene	ND	0.048	mg/Kg	1	4/11/2019 5:44:29 PM	44226
Xylenes, Total	ND	0.096	mg/Kg	1	4/11/2019 5:44:29 PM	44226
Surr: 1,2-Dichloroethane-d4	82.1	70-130	%Rec	1	4/11/2019 5:44:29 PM	44226
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	4/11/2019 5:44:29 PM	44226
Surr: Dibromofluoromethane	87.8	70-130	%Rec	1	4/11/2019 5:44:29 PM	44226
Surr: Toluene-d8	94.2	70-130	%Rec	1	4/11/2019 5:44:29 PM	44226

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-9 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 11:30:00 AM

 Lab ID:
 1904364-015
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	4/11/2019 6:25:48 PM	44293
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/11/2019 7:10:16 PM	44226
Surr: BFB	103	70-130	%Rec	1	4/11/2019 7:10:16 PM	44226
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	16	9.6	mg/Kg	1	4/12/2019 12:19:26 PM	44265
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/12/2019 12:19:26 PM	44265
Surr: DNOP	101	70-130	%Rec	1	4/12/2019 12:19:26 PM	44265
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	-				Analyst:	RAA
Benzene	ND	0.023	mg/Kg	1	4/11/2019 7:10:16 PM	44226
Toluene	ND	0.046	mg/Kg	1	4/11/2019 7:10:16 PM	44226
Ethylbenzene	ND	0.046	mg/Kg	1	4/11/2019 7:10:16 PM	44226
Xylenes, Total	ND	0.093	mg/Kg	1	4/11/2019 7:10:16 PM	44226
Surr: 1,2-Dichloroethane-d4	85.8	70-130	%Rec	1	4/11/2019 7:10:16 PM	44226
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	4/11/2019 7:10:16 PM	44226
Surr: Dibromofluoromethane	90.7	70-130	%Rec	1	4/11/2019 7:10:16 PM	44226
Surr: Toluene-d8	94.5	70-130	%Rec	1	4/11/2019 7:10:16 PM	44226

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

Qualifiers:

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

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

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Date Reported: 4/22/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon LPE Client Sample ID: S-10 0'

 Project:
 Devon Union 35A Fed Battery 1
 Collection Date: 4/3/2019 11:40:00 AM

 Lab ID:
 1904364-016
 Matrix: SOIL
 Received Date: 4/5/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	2100	60		mg/Kg	20	4/11/2019 6:38:12 PM	44293
EPA METHOD 8015D MOD: GASOLINE RANGE	!					Analyst:	RAA
Gasoline Range Organics (GRO)	120	24		mg/Kg	5	4/11/2019 7:38:56 PM	44226
Surr: BFB	105	70-130		%Rec	5	4/11/2019 7:38:56 PM	44226
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	: Irm
Diesel Range Organics (DRO)	28000	390		mg/Kg	40	4/11/2019 9:41:22 PM	44265
Motor Oil Range Organics (MRO)	20000	2000		mg/Kg	40	4/11/2019 9:41:22 PM	44265
Surr: DNOP	0	70-130	S	%Rec	40	4/11/2019 9:41:22 PM	44265
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	Г					Analyst:	RAA
Benzene	ND	0.12		mg/Kg	5	4/11/2019 7:38:56 PM	44226
Toluene	ND	0.24		mg/Kg	5	4/11/2019 7:38:56 PM	44226
Ethylbenzene	ND	0.24		mg/Kg	5	4/11/2019 7:38:56 PM	44226
Xylenes, Total	0.69	0.48		mg/Kg	5	4/11/2019 7:38:56 PM	44226
Surr: 1,2-Dichloroethane-d4	83.7	70-130		%Rec	5	4/11/2019 7:38:56 PM	44226
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	5	4/11/2019 7:38:56 PM	44226
Surr: Dibromofluoromethane	87.7	70-130		%Rec	5	4/11/2019 7:38:56 PM	44226
Surr: Toluene-d8	93.5	70-130		%Rec	5	4/11/2019 7:38:56 PM	44226

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

Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904364** 

22-Apr-20

**Client:** Talon LPE

**Project:** Devon Union 35A Fed Battery 1

Sample ID: MB-44293 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44293 RunNo: 59095

Prep Date: 4/11/2019 Analysis Date: 4/11/2019 SeqNo: 1989134 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-44293 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44293 RunNo: 59095

Prep Date: 4/11/2019 Analysis Date: 4/11/2019 SeqNo: 1989135 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.3 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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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904364 22-**Apr-20

Client:

Talon LPE

**Project:** Devon Union 35A Fed Battery 1

Sample ID: LCS-44265 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 44265 RunNo: 59065

Prep Date: 4/10/2019 Analysis Date: 4/11/2019 SeqNo: 1988542 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 44
 10
 50.00
 0
 87.7
 63.9
 124

 Surr: DNOP
 4.6
 5.000
 91.2
 70
 130

Sample ID: MB-44265 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 44265 RunNo: 59065

Prep Date: 4/10/2019 Analysis Date: 4/11/2019 SeqNo: 1988543 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.6 10.00 95.5 70 130

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1904364

22-Apr-20

**Client:** 

Talon LPE

**Project:** Devon Union 35A Fed Battery 1

Sample ID: MB-44225

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

PBS Client ID:

Prep Date:

Batch ID: 44225

PQL

5.0

%REC

RunNo: 59087

4/9/2019

Analysis Date: 4/11/2019

0

SeqNo: 1988763

LowLimit

73.8

Units: mg/Kg

**RPDLimit** 

Analyte Gasoline Range Organics (GRO)

ND 900

Result

SPK value SPK Ref Val

SPK value SPK Ref Val

1000

89.9

119

HighLimit

%RPD

Qual

Surr: BFB

Sample ID: LCS-44225

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Prep Date: 4/9/2019

Batch ID: 44225

RunNo: 59087

HighLimit

Units: mg/Kg

Analyte

Result PQL

27

1000

Analysis Date: 4/11/2019

SeqNo: 1988764 %REC

Qual %RPD **RPDLimit** 

Gasoline Range Organics (GRO) Surr: BFB

5.0 25.00 1000 109 103 80.1 73.8

LowLimit

123 119

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 17 of 21

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904364** 

22-Apr-20

**Client:** Talon LPE

**Project:** Devon Union 35A Fed Battery 1

Sample ID: MB-44225 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 44225 RunNo: 59087

Prep Date: 4/9/2019 Analysis Date: 4/11/2019 SeqNo: 1988810 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.90 1.000 89.6 80 120

Sample ID: LCS-44225 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 44225 RunNo: 59087

Prep Date: 4/9/2019	Analysis D	Date: 4/	11/2019	5	SeqNo: 1	988811	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	80	120			
Toluene	0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	80	120			

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1904364

22-Apr-20

**Client:** 

Talon LPE

**Project:** Devon Union 35A Fed Battery 1

Sample ID: 1904364-014ams SampType: MS TestCode: EPA Method 8260B: Volatiles Short List Client ID: S-8 0' Batch ID: 44226 RunNo: 59108

Prep Date: 4/9/2019 Analysis Date: 4/11/2019 SeqNo: 1989651

Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene 0.83 0.024 0.9515 0 87.7 68.9 131 Toluene 1.0 0.048 0.9515 0 108 64.3 137 0 70 Ethylbenzene 1.1 0.048 0.9515 111 130 Xylenes, Total 3.2 0.095 2.854 0 112 70 130 Surr: 1,2-Dichloroethane-d4 0.39 0.4757 82.8 70 130 Surr: 4-Bromofluorobenzene 0.47 0.4757 98.9 70 130 Surr: Dibromofluoromethane 0.41 0.4757 87.0 70 130 Surr: Toluene-d8 0.44 0.4757 91.9 70 130

Sample ID: 1904364-014amsd SampType: MSD TestCode: EPA Method 8260B: Volatiles Short List Client ID: S-8 0' Batch ID: 44226 RunNo: 59108

414410040 Coallo: 4000CE2

Prep Date: 4/9/2019	Analysis D	ate: <b>4/</b>	11/2019	S	SeqNo: 19	989652	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9681	0	86.0	68.9	131	0.276	20	
Toluene	1.0	0.048	0.9681	0	105	64.3	137	0.989	20	
Ethylbenzene	1.1	0.048	0.9681	0	109	70	130	0.0922	0	
Xylenes, Total	3.1	0.097	2.904	0	108	70	130	1.97	0	
Surr: 1,2-Dichloroethane-d4	0.41		0.4840		83.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4840		102	70	130	0	0	
Surr: Dibromofluoromethane	0.44		0.4840		91.5	70	130	0	0	
Surr: Toluene-d8	0.46		0.4840		94.4	70	130	0	0	

Sample ID: Ics-44226 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 44226 RunNo: 59108

Prep Date: 4/9/2019	Analysis [	Date: <b>4/</b>	11/2019	9	SeqNo: 1	989810	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.2	70	130			
Toluene	0.97	0.050	1.000	0	96.9	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.9	70	130			
Xylenes, Total	2.9	0.10	3.000	0	98.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		89.9	70	130			
Surr: Toluene-d8	0.46		0.5000		92.9	70	130			

#### Qualifiers:

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

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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904364** 

22-Apr-20

Client: Talon LPE

**Project:** Devon Union 35A Fed Battery 1

Sample ID: <b>mb-44226</b>	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: 442	226	F	RunNo: <b>5</b> 9	9108				
Prep Date: 4/9/2019	Analysis D	Date: 4/	11/2019	8	SeqNo: 19	989811	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.9	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		90.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

#### Qualifiers:

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

SampType: MSD

WO#: **1904364** 

22-Apr-20

Client: Talon LPE

Sample ID: 1904364-013amsd

**Project:** Devon Union 35A Fed Battery 1

Sample ID: 1904364-013ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: S-7 0' Batch ID: 44226 RunNo: 59108 Prep Date: 4/9/2019 Analysis Date: 4/11/2019 SeqNo: 1989683 Units: mq/Kq PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 21 4.7 23.74 Λ 88.9 68.2 135 Surr: BFB 500 474.8 105 130

Client ID: S-7 0' Batch ID: 44226 RunNo: 59108 Prep Date: Analysis Date: 4/11/2019 SeqNo: 1989684 4/9/2019 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual 68.2 Gasoline Range Organics (GRO) 4.6 22.98 90.0 135 2.11 20 Surr: BFB 490 459.6 107 70 130 0

TestCode: EPA Method 8015D Mod: Gasoline Range

Sample ID: Ics-44226 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 44226 RunNo: 59108 Prep Date: 4/9/2019 Analysis Date: 4/11/2019 SeqNo: 1989690 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 70 130 Surr: BFB 520 500.0 103 70 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: mb-44226 SampType: MBLK Client ID: PBS Batch ID: 44226 RunNo: 59108 Prep Date: 4/9/2019 Analysis Date: 4/11/2019 SeqNo: 1989692 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 500 500.0 100 70 130

#### Qualifiers:

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

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

Page 21 of 21



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

### Sample Log-In Check List

Client Name:	Talon LPE		Work	Order Numb	er: 190	4364			RcptNo:	1
Received By:	Yazmine	Garduno	4/5/201	9 8:45:00 AI	м		rforgains (	Graduit		
Completed By:	Leah Bad	ca	4/5/201	9 11:25:05 A	AM		1.10	Bace		
Reviewed By:	PAD	415/19					1 aar Ja	men		
Labele	d be	50	1.1							
Chain of Cus	stody		4/5/19							
1. Is Chain of C	ustody comp	plete?			Yes	~	No		Not Present	
2. How was the	sample deli	vered?			Cou	rier				
Login										
Log In 3. Was an atten	not made to	cool the sam	nnles?		Yes		No [		NA 🗆	
		occi are can	ipico:		103		110		MA LI	
4. Were all sam	ples received	d at a tempe	rature of >0° C	to 6.0°C	Yes	~	No [		NA 🗆	
F -								_		
5. Sample(s) in	proper conta	ainer(s)?			Yes	~	No [			
6. Sufficient san	nple volume	for indicated	test(s)?		Yes	~	No [			
7. Are samples (				ed?	Yes	~	No [	_		
8. Was preserva					Yes		No S	/	NA 🗆	
9. VOA vials hav	e zero head	snace?			Yes		No [	7	No VOA Vials 🗹 🚤	
10. Were any sar		2005	broken?		Yes		No S		THO VOX VIAIS &	-6
, , , , , , , , , , , , , , , , , , , ,		01010001100	DIGNOII.		103		110		# of preserved bottles checked	1/5/19
11. Does paperwo					Yes	~	No [		for pH:	
(Note discrepa								_		12 unless noted)
2. Are matrices			The second section (		Yes		No L		Adjusted?	
3. Is it clear wha					Yes Yes	V	No L No [		Checked by:	
(If no, notify c					168		NO L	_	Oncoked by.	
Special Handl	ling (if api	plicable)								
15. Was client no			with this order?	,	Yes		No [		NA 🗹	
Person	Notified:	r		Date	<u> </u>			omerce.		
By Who				Via:	eM	ail 🗆	Phone  F	Fay	☐ In Person	
Regard										
Client I	nstructions:									
16. Additional re	marks:									
17. Cooler Infor	mation									
Cooler No	- /	Condition	Seal Intact	Seal No	Seal D	ate	Signed By	,		
1	1.4	Good	Yes	•		8				
2	2.4	Good	Yes							

Received phy October 1972   ANALYSIS LABORATORY   ANALYSIS LABORATORY   Analysis   Analy	## 35.4 fed Battery #1	(8021) (8021) (8021)	2 / kc/a / kg/s	U c   C   C   C   C   C   C   C   C   C	Preservative  Type  HEAL No.  The Heather was the series of	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- 200-	7003		500-	900~	-007		-009	-010	110-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Remarks:	2 pr. 9	Date Tiffie
Turn-Around Time:   Standard  Project Name:	Devon Union Project #:	anager	Sampler: Brandon On Ice: X Yes	11-	Container Pres												_	Received by:	4. Anh	Received by:
Chain-of-Custody Record Client: Talon/LPE	Mailing Address: 408 W Texas Ave Deresia, NM 88210  Artesia, NM 88210  Phone #: 575 - 131 - 6477	ax#: ackage:	Accreditation  □ NELAP  □ Other	□ EDD (Type)	Date Time Matrix Sample Request ID	4/3/19 9:30 50:1 5-1 0'	5-20'	9:45 5-2 1	9:50   5-2 2	9:55 5-2 3'	10:00 5-2 4	10:10 5-3 0	10:15 5-3 1	10:25 5-40	10:30 5-4 /		10:55   5-6 0	Relinquished by:	an Si	Date: Time: Relinquished by:

Custody   P.    8	R Standard   Rush   ANAI VETE   ARDICATION	www hallenvironmental com	37109	Project #: Tel. 505-345-3975 Fax 505-345-4107	700794,279.01 Analysis Request	Project Manager:	18,8 19,0 19,0 19,0 19,0 19,0 19,0 19,0 19,0	(Ga: 30 / 30 / 30 / 30 / 30 / 30 / 30 / 30	Brondon Sinclair	No   T + T + T + T + T + T + T + T + T + T	Temperature: 1 4 7 7 9 8 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	Sample Request ID Container Preservative HEAL No. + MTI PH 8015B PAH's (8310 P	/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,					e Remarks:	m 8.182	
		Project Name:	Are Devon	Project #		Project Manage		David	Sampler: Bro	100	Sample Tempe	Container Type and #	4 02						Received by:	Historia Sin	Industrial by.

### **Analytical Report 625608**

for Talon/LPE Co.

Project Manager: David Adkins
Union 35A Fed Batt
700794.279.01
29-MAY-19

Collected By: Client





#### 1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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29-MAY-19

Project Manager: **David Adkins Talon/LPE Co.**921 N Bivins St
Amarillo, TX 79107

Reference: XENCO Report No(s): 625608

Union 35A Fed Batt Project Address:

### David Adkins:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 625608. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 625608 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



### CASE NARRATIVE

Client Name: Talon/LPE Co.
Project Name: Union 35A Fed Batt

Project ID: 700794.279.01 Work Order Number(s): 625608 Report Date: 29-MAY-19 Date Received: 05/28/2019

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-3090378 Chloride by EPA 300

Lab Sample ID 625614-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 625608-001, -006, -007.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3090497 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 625608-005,625608-004.



### Sample Cross Reference 625608



### Talon/LPE Co., Amarillo, TX

### Union 35A Fed Batt

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
S-2A Composite	S	05-17-19 12:00		625608-001
S-1A Composite	S	05-24-19 10:30		625608-002
S-5A Composite	S	05-24-19 10:45		625608-003
S-6A Composite	S	05-24-19 11:00		625608-004
S-7A Composite	S	05-24-19 11:10		625608-005
S-8A Composite	S	05-24-19 11:20		625608-006
S-10 A 0.5'	S	05-24-19 11:30		625608-007



### **Certificate of Analytical Results** 625608



### Talon/LPE Co., Amarillo, TX

Union 35A Fed Batt

Sample Id: S-2A Composite

Matrix:

Soil

Sample Depth:

Lab Sample Id: 625608-001

Date Collected: 05.17.19 12.00

Date Received: 05.28.19 07.36

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3090378

Date Prep: 05.28.19 12.40

Prep seq: 7678646

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	749	5.00	0.858	mg/kg	05.28.19 13:23	X	1

Sample Id: S-1A Composite

Soil Matrix:

Sample Depth:

Lab Sample Id: 625608-002

Date Collected: 05.24.19 10.30

Date Received: 05.28.19 07.36

Analytical Method: TPH by SW8015 Mod

Prep Method: 1005

Analyst:

ARM

% Moist:

Tech:

ARM

Seq Number: 3090497

Date Prep: 05.28.19 15.00

Prep seq: 7678780

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	12.4	15.0	7.99	mg/kg	05.29.19 02:12	J	1
Diesel Range Organics (DRO)	C10C28DRO	12.8	15.0	8.11	mg/kg	05.29.19 02:12	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<8.11	15.0	8,11	mg/kg	05.29.19 02:12	U	1
Total TPH	PHC635	25.2		7.99	mg/kg	05.29.19 02;12		
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1-Chlorooctane		99		70 - 1	135 %	6		
o-Terphenyl		81		70 -	135 %	6		

Final 1.000



### **Certificate of Analytical Results** 625608



### Talon/LPE Co., Amarillo, TX

Union 35A Fed Batt

Sample Id: S-5A Composite Matrix:

Soil

Sample Depth:

Lab Sample Id: 625608-003

Date Collected: 05.24.19 10.45

Date Received: 05.28.19 07.36

Analytical Method: TPH by SW8015 Mod

Seq Number: 3090497

Prep Method: 1005

Analyst:

ARM

% Moist:

Tech:

ARM

Seq Number: 3090497

Date Prep: 05.28.19 15.00

Prep seq: 7678780

Parameter	CAS Number	Result	MQL S	SDL	Units	Analysis Date	Flag	Dil Facto
Gasoline Range Hydrocarbons (GRO)	PHC610	14.0	14.9	7,97	mg/kg	05.29.19 02:37	J	1
Diesel Range Organics (DRO)	C10C28DRO	173	14.9	8.10	mg/kg	05,29.19 02:37		1.
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	37.3	14,9	8.10	mg/kg	05.29.19 02:37		1
Total TPH	PHC635	224		7.97	mg/kg	05.29.19 02:37		
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1-Chlorooctane		87		70 - 1	35 %	ó		
o-Terphenyl		70		70 - 1	35 %	6		
ample Id: S-6A Composite		Matrix:	Soil		Sample	e Depth:		
b Sample Id: 625608-004		Date Collect	ed: 05.24.19 11.0	0	Date R	eceived: 05.28.	19 07.3	6
nalytical Method: TPH by SW8015 Mo	d				Prep M	fethod: 1005		
nalyst: ARM		% Moist:			Tech:	ARM		

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Gasoline Range Hydrocarbons (GRO)	PHC610	12.8	14.9	7.97	mg/kg	05.29.19 03:02	J	1.1
Diesel Range Organics (DRO)	C10C28DRO	196	14.9	8.10	mg/kg	05.29.19 03:02		(1)
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	56.6	14.9	8.10	mg/kg	05,29.19 03:02		1
Total TPH	PHC635	265		7.97	mg/kg	05.29.19 03:02		
Surrogate		% Recovery		Limits	Un	its Analysis	Date	Flag
1-Chlorooctane		82		70 -	135 %	6		
o-Terphenyl		58		70 -	135 %	6		**

Date Prep: 05.28.19 15.00

Prep seq: 7678780

5

05.28.19 14:11



### Certificate of Analytical Results 625608



### Talon/LPE Co., Amarillo, TX

Union 35A Fed Batt

Sample Id:

S-7A Composite

Matrix:

Soil

Sample Depth:

Lab Sample Id: 625608-005

Date Collected: 05.24.19 11.10

Date Received: 05.28.19 07.36

Analytical Method: TPH by SW8015 Mod

1005 Prep Method:

Analyst:

ARM

% Moist:

Tech:

4.34

mg/kg

ARM

Seq Number: 3090497

Chloride

Date Prep: 05.28.19 15.00

Prep seq: 7678780

		Trop sed.						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	20.7	15.0	7.99	mg/kg	05.29.19 03:27		1
Diesel Range Organics (DRO)	C10C28DRO	873	15.0	8.12	mg/kg	05.29.19 03:27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	145	15.0	8.12	mg/kg	05.29.19 03:27		1
Total TPH	PHC635	1040		7.99	mg/kg	05.29.19 03:27		
Surrogate		% Recovery		Limits	Un	its Analysi	s Date	Flag
1-Chlorooctane		71		70 -	135 %	6		
o-Terphenyl		64		70 -	135 %	6		**
Sample Id: S-8A Composite		Matrix:	Soil		Sample	e Depth:		
Lab Sample Id: 625608-006		Date Collec	ted: 05.24.19 11.	20	Date R	eceived: 05.28	.19 07.	36
Analytical Method: Chloride by EPA 300					Prep M	fethod: E300	Р	
Analyst: CHE		% Moist:			Tech:	CHE		
Seq Number: 3090378		Date Prep:	05.28.19 12.40					
		Prep seq:	7678646					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor

2830

25.3

16887-00-6



### Certificate of Analytical Results 625608



### Talon/LPE Co., Amarillo, TX

Union 35A Fed Batt

Sample Id: S-10 A 0.5' Matrix:

Soil

Sample Depth:

Lab Sample Id: 625608-007

Date Collected: 05.24.19 11.30

Date Received: 05.28.19 07.36

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3090378

Date Prep: 05.28.19 12.40

Prep seq: 7678646

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	11700	100	17.2	mg/kg	05.28.19 14:33		20

Analytical Method: TPH by SW8015 Mod

Prep Method:

1005

Analyst:

ARM

% Moist:

Tech:

ARM

Seq Number: 3090497

Date Prep: 05.28.19 15.00

Prep seq: 7678780

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	16.5	15.0	7.99	mg/kg	05.29.19 03:52		ī
Diesel Range Organics (DRO)	C10C28DRO	2250	15.0	8.11	mg/kg	05.29.19 03:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	392	15.0	8.11	mg/kg	05.29.19 03:52		1
Total TPH	PHC635	2660		7.99	mg/kg	05.29.19 03:52		.1
Surrogate		% Recovery		Limits	Uni	its Analysis l	Date	Flag
1-Chlorooctane		79		70 - 13	5 %			
o-Terphenyl		77		70 - 13				



### **Certificate of Analytical Results** 625608



### Talon/LPE Co., Amarillo, TX

Union 35A Fed Batt

Sample Id:

7678646-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7678646-1-BLK

Date Collected:

Date Received:

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Analyst:

CHE

% Moist:

Tech:

CHE

Seq Number: 3090378

Date Prep: 05.28.19 12.40

Prep seq: 7678646

CAS Analysis Parameter Dil Factor Result MQL SDL Units Number Date Chloride 16887-00-6 < 0.858 5.00 0.858 mg/kg 05,28.19 13:01

Sample Id:

7678780-1-BLK

Matrix:

Solid

Sample Depth:

Lab Sample Id: 7678780-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH by SW8015 Mod

Prep Method:

Analyst:

ARM

% Moist:

Tech:

1005 ARM

Seq Number: 3090497

Date Prep: 05.28.19 15.00

Prep seq: 7678780

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<8.00	15.0	8.00	mg/kg	05.28.19 18:20	U	15
Diesel Range Organics (DRO)	C10C28DRO	< 8.13	15.0	8.13	mg/kg	05.28.19 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<8.13	15.0	8.13	mg/kg	05.28.19 18:20	U	1
Total TPH	PHC635	<8.00		8.00	mg/kg	05.28.19 18:20	U	1
Surrogate		% Recovery		Limits	Uni	its Analysis	Date	Flag
1-Chlorooctane		109		70 - 13	35 %			
o-Terphenyl		104		70 - 13				



### Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD

Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



### Form 2 - Surrogate Recoveries

Project Name: Union 35A Fed Batt

Work Orders: 625608,

Sample: 7678780-1-BLK / BLK

Project ID: 700794.279.01

Lab Batch #: 3090497

Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 05/28/19 18:20	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	109	100	109	70-135				
o-Terphenyl	52.1	50.0	104	70-135				

Lab Batch #: 3090497

Sample: 7678780-1-BKS/BKS

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 05/28/19 18:45	SU	RROGATE F	ROGATE RECOVERY STUDY						
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane	92.5	100	93	70-135					
o-Terphenyl	48.5	50.0	97	70-135					

Lab Batch #: 3090497

Sample: 7678780-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg	<b>Date Analyzed:</b> 05/28/19 19:10	SURROGATE RECOVERY STUDY							
ТРН	by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane		98.5	100	99	70-135				
o-Terphenyl		52.2	50.0	104	70-135				

Lab Batch #: 3090497

Sample: 625610-001 S / MS

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 05/28/19 19:59	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.9	99.8	83	70-135	
o-Terphenyl	37.9	49.9	76	70-135	

Lab Batch #: 3090497

Sample: 625610-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	Date Analyzed: 05/28/19 20:24	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		82.2	99.8	82	70-135	
o-Terphenyl		41.7	49.9	84	70-135	

<sup>\*</sup> Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



### BS / BSD Recoveries

Project Name: Union 35A Fed Batt



Work Order #: 625608

Analyst:

Lab Batch ID: 3090378 Sample: 7678646-1-BKS Date Prepared: 05/28/2019

Project ID: 700794.279.01

Date Analyzed: 05/28/2019

Units:

mg/kg

Batch #: 1

Matrix: Solid

ang ng		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
Chloride by EPA 300  Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup, %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	234	94	250	233	93	0	90-110	20	-
alyst: ARM	D	ate Prepar	ed: 05/28/20	19			Date Ar	nalvzed: (	05/28/2019	20	

Lab Batch ID: 3090497

Sample: 7678780-1-BKS

Batch #: 1

Date Analyzed: 05/28/2019

Matrix: Solid

Units: mg/kg BLANK/BLANK SPIKE/BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	945	95	1000	961	96	2	70-135	20	-
Diesel Range Organics (DRO)	<8.13	1000	902	90	1000	924	92	2	70-135	20	

Relative Percent Difference RPD = 200\*[(C-F)/(C+F)]Blank Spike Recovery [D] = 100\*(C)/[B]Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]All results are based on MDL and Validated for QC Purposes



### Form 3 - MS / MSD Recoveries

Project Name: Union 35A Fed Batt

Work Order #: Lab Batch ID:

Date Analyzed:

Reporting Units:

625608

3090378

05/28/2019

mg/kg

QC- Sample ID: 625608-001 S Date Prepared: 05/28/2019

Batch #:

Analyst: CHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result Added [A] [B]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	749	250	952	81	250	952	81	0	90-110	20	х

Lab Batch ID:

3090378 05/28/2019 QC- Sample ID: 625614-001 S

Batch #: Matrix: Soil

Date Analyzed: Reporting Units:

mg/kg

Date Prepared: 05/28/2019

Analyst: CHE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	393	249	615	89	249	613	88	0	90-110	20	Х

Lab Batch ID:

3090497

QC- Sample ID: 625610-001 S

Batch #:

Matrix: Soil

Project ID: 700794.279.01

Matrix: Soil

Date Analyzed:

05/28/2019

Date Prepared: 05/28/2019

Analyst: ARM

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate TPH by SW8015 Mod Spiked Control Control Limits Sample Result Spike Result Sample Spike piked Sampl Dup. RPD Limits Flag Added [E] Added [C] %R Result [F] %R %R %RPD Analytes [A] [B] [D] [G] Gasoline Range Hydrocarbons (GRO) <7.99 998 910 91 998 874 88 70-135 20 Diesel Range Organics (DRO) 998 843 <8.11 84 998 855 86 70-135 20

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

 $ND = Not \ Detected, I = Present \ Below \ Reporting \ Limit, B = Present \ in \ Blank, NR = Not \ Requested, I = Interference, NA = Not \ Applicable \\ N = See \ Narrative, EQL = Estimated \ Quantitation \ Limit, NC = Non \ Calculable - Sample \ amount \ is <math>> 4$  times the amount spiked.

Page 14 of 16

Final 1.000

Revised Date 051418 Rev. 2018.1



Project Manager:

### Chain of Custody

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

Bill to: (if different)

Work Order No: W (210) 509-3334
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Page

9

HON W TEXAS AVE Address:  Artesia, NM 88210 City, State ZIP:  S75-746-8768 Email: dadkins@talanlpe.com  Deliverables: EDD	State of Project:  ### Reporting:Level II
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State 2P:   Art Es is, NA   R8 2   O	Marker   M
State 2P:   Art Es is, NA   R8 2   O	Marker   M
State 2P:   Art Es is,   M   R 2   O	Martes in Antes in
State 2P:   Art Es is,   M   R 2   O	Martes in Antes in
Statistics:   HOR     Tex as   A Ve     Address:   State   Project   State   Project   State   Project   State   Project   State   S	Marker   M
Statistics:   HOR     Tex as   A Ve   Actress:   State   Project   P	Marker   M
Status   Part	Marker   M
Statistics:   HORY   Tex 0.5 A V.e.   Actives:   Statistics   Stati	Marker   M
Status   Part	Martes   M
Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City	Marker   M
Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City   Status 2P:   Art   5 in   M   R   2   O   City	Marker   M
Status 2P:   Art   Size   Art   Art   Size   Art   Art   Size   Art   Art   Size   Art   Art   Art   Size   Art	Mark
Status 2P:   Art 2 s.ia,   MM   R 2 lO     Clly Status 2P:   Art 2 s.ia,   MM   R 2 lO   Clly Status 2P:   Art 2 s.ia,   MM   R 2 lO   Clly Status 2P:   Art 2 s.ia,   MM   R 2 lO   Clly Status 2P:   Cll   Art 2 s.ia,   MM   R 2 lO   Clly Status 2P:   Cll   Clly Status 2P:   Cll   Clly Status 2P:   Cll   Clly Status 2P:   Clly Status	Martic   M
Statistics:   HOR     Tex as   A ve	Martic   M
Status 2P:   Art Es is,   NAM   R82   O   Clay Status	Martic   M
Status 2P:   Art Es is,   NAM   R82   O   Clay Status	Martic   M
Status 2P:   Art Es is,   NAM   R82   O   Clay Status	Martic   M
Status 2P:   Art Es is,   NAM   R82   O   Clay Status	Martic   M
Statistics:   HOR     Tex as   A ve   Actress:   State   For   Art   Es in   ANA   88 2 (0   Gly, State   For   Growth   For	Martes   M
Statistics   HOR   Tex as   A ve   Actieses   Statistics   Artists in   Artists   Ar	
State 2P:   Art 2 s.i.   M.M.   Tex a s.   A ve   Art 2 s.i.   M.M.   R 2 l O   Gly, State 2P:   Art 2 s.i.   M.M.   R 2 l O   Gly, State 2P:   Art 2 s.i.   M.M.   R 2 l O   Gly, State 2P:	
State 2P:   Hote   Ho	Substant   Composite   Compo
State 2P:   Hote   Ho	State ZP:   Art Estia   AM   R2   O   ON   State ZP:   ON   ON   State ZP:   ON   ON   ON   ON   ON   ON   ON   O
Martes   M	State 2P:   Art Estia   AM   R2   O   ON   State 2P:   ON   ON   State 2P:   ON   ON   ON   ON   ON   ON   ON   O
Martes   M	State 2P:
Marker   Mark   Marker   Mar	Sales   Composite   Composit
Martes   M	State 2P:   Artesia   Mark   Reporting Level   Developed:   Properties Name:
Martes   Martes   Artesia   Martes   Artesia   Martes	State 2P:   Ho X     Tex 16   A M   R 2 10   Oily State 2P:   Oily State
Marker   M	State 2P:   Hot   M   Tex 18   Av P   Artfas in   Av P   R 2   O   Oliv State 2P:   Stat
Marker   M	State of Project   Wilder   State 2P:   Artfs:ia, NM 88210   State of Project   Wilder   State 2P:   State 2P:   Artfs:ia, NM 88210   Single 2P:   State 2P:   S
Marker   M	State of Project   No.   State 2P;   Arts ia, N.M. 882 10   Oilv. State 2P;   Arts ia, N.M. 10   Oilv. State 2P;   Oilv. 10   Oilv. State 2P;   Oilv. 10   Oilv. State 2P;   Oilv. 10   Oilv
Marker   M	State of Project   No.   State 2P;   Artesia, N.M. 882 10   Oliv, state 2P;
Mark	State of Project   No.
Marker   M	State 2P;   Art 15 ia, NM   R2 10   Oily, State 2P;   Art 15 ia, NM   R2 10   Oily, State 2P;   Art 15 ia, NM   R2 10   Oily, State 2P;   Art 15 ia, NM   R2 10   Oily, State 2P;   Art 15 ia, NM   R2 10   Oily, State 2P;   Art 15 ia, NM   Concentration Factor;   Oily Oily, State 2P;   Oily Oily,
State 2P	State 2P;   ArTesia, NM   R82   O   Oliv, State 2P;   State 2P;   ArTesia, NM   R82   O   Oliv, State 2P;   ArTesia, NM   R82   O   Oliv, State 2P;   Artesia, NM   R82   Oliv, State 2P;   Artesia, NM   R82   Oliv, State 2P;   Artesia, NM   Recting Level III   PST   Oliverables: EDD   ADAPT   Decirity Number:   7/202794.279.01   Routine   Routine   Oliverables: EDD   ADAPT



### XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.

Date/ Time Received: 05/28/2019 07:36:00 AM

Work Order #: 625608

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

AI	1a	ıys	Ι.	
		3.4		

PH Device/Lot#:

Checklist	completed	by:	

Brianna Teel

Date: 05/28/2019

Checklist reviewed by:

lession beamer

Jessica Kramer

Date: 05/28/2019



June 20, 2019

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

**RE: UNION 35 FED BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 06/19/19 16:25.

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.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred 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.

Celeg D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number: UNION 35 FED BATTERY

Project Location:

700794.279.01 DEVON - EDDY COUNTY, NM Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019 Soil

Cool & Intact

Tamara Oldaker

Sample ID: B-1 0-1 (H902117-01)

BTEX 8260B	mg/	mg/kg		ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	
Toluene*	< 0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	< 0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND					
Surrogate: Dibromofluoromethane	99.0	% 90.4-11	1						
Surrogate: Toluene-d8	100 9	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	96.75	% 80.1-12	1						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	06/20/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				9.44	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	.,
DRO >C10-C28*	75.2	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	37.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	82.8 %	6 41-142							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 11



### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

**UNION 35 FED BATTERY** 

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019

Soil

Cool & Intact

Tamara Oldaker

### Sample ID: B-1 2' (H902117-02)

BTEX 8260B	mg,	mg/kg		ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	
Toluene*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND					
Surrogate: Dibromofluoromethane	99.1	% 90.4-11	Í						
Surrogate: Toluene-d8	101	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	96.8	% 80.1-12	1						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	06/20/2019	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	06/19/2019	ND	194	97.0	200	5.17	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	85.75	% 41-142	6						
Surrogate: 1-Chlorooctadecane	85.75	% 37.6-14.	7						

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 11



### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

UNION 35 FED BATTERY

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019 Soil

Cool & Intact

Tamara Oldaker

Sample ID: B-1 3' (H902117-03)

3260B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ne*	< 0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	7.E. 1. S.
e*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
enzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
(ylenes*	<0,075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
BTEX	<0.150	0.150	06/20/2019	ND					
ate: Dibromofluoromethane	97.7	% 90.4-11	1						
ate: Toluene-d8	100 9	% 85.3-11	4						
ate: 4-Bromofluorobenzene	99.1	% 80.1-12	1						
le, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
de	11500	16.0	06/20/2019	ND	400	100	400	0.00	
15M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
5-C10*	<10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	
C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
O >C28-C36	<10.0	10.0	06/19/2019	ND				5.54	
ate: 1-Chlorooctane	87.09	% 41-142	į.						
ate: I-Chlorooctadecane	86.99	37.6-14	7						

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

**UNION 35 FED BATTERY** 700794.279.01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019 Soil

Cool & Intact

Tamara Oldaker

### Sample ID: B-1 4' (H902117-04)

BTEX 8260B	mg/	kg	Analyzo	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	
Toluene*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND					
Surrogate: Dibromofluoromethane	97.5 9	6 90.4-11	I						
Surrogate: Toluene-d8	1019	6 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	97.69	6 80.1-12	I						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	9330	16.0	06/20/2019	ND	400	100	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS				3.55	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	, C. 1930.121
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND			745	2120	
Surrogate: 1-Chlorooctane	83.8 %	6 41-142	1						
Surrogate: 1-Chlorooctadecane	84.2 %	37.6-147	7						

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### Analytical Results For:

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

Received:

06/19/2019 06/20/2019

Reported: Project Name:

UNION 35 FED BATTERY

Project Number:

700794.279.01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019

Soil

Cool & Intact

Tamara Oldaker

### Sample ID: B-1 5' (H902117-05)

BTEX 8260B	mg,	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	
Toluene*	< 0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND					
Surrogate: Dibromofluoromethane	98.2	% 90,4-11	I						
Surrogate: Toluene-d8	101 9	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	95.9	% 80.1-12	1						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	06/20/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				12047	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					
Surrogate: 1-Chlorooctane	86.49	6 41-142	2						
Surrogate: 1-Chlorooctadecane	86.19	6 37.6-14	7						

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### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

**UNION 35 FED BATTERY** 

Project Location:

700794.279.01 DEVON - EDDY COUNTY, NM Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil

Cool & Intact

06/19/2019

Tamara Oldaker

### Sample ID: B-1 6' (H902117-06) BTEX 8260B

BTEX 8260B	mg	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	\$3,500
Toluene*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND			0.00	3.17	
Surrogate: Dibromofluoromethane	98.1	% 90.4-11	I						
Surrogate: Toluene-d8	102	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	96.5	% 80.1-12	1						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	06/20/2019	ND	416	104	400	3.92	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					Q. T. O.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	Qualific)
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND			200	5.55	
Surrogate: 1-Chlorooctane	86.5	6 41-142							
Surrogate: 1-Chlorooctadecane	86.5	6 37.6-147	7						

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\*=Accredited Analyte

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### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Received:

06/19/2019

Reported: Project Name:

BTEX 8260B

06/20/2019 UNION 35 FED BATTERY

Project Number:

700794.279.01

Project Location:

ma/ka

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

06/19/2019 Soil

Cool & Intact

Tamara Oldaker

### Sample ID: B-1 7' (H902117-07)

DIEX 0200B	mg/	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	2-7-7-0-5
Toluene*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	< 0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND				3.17	
Surrogate: Dibromofluoromethane	96.3	% 90.4-11	1						
Surrogate: Toluene-d8	101 9	6 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.2 9	% 80.1-12	1						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	06/20/2019	ND	416	104	400	3.92	4
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	06/19/2019	ND	194	97.0	200	5.17	Casallia
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND			233	5.55	
Surrogate: 1-Chlorooctane	86.3 %	6 41-142							
Surrogate: 1-Chlorooctadecane	85.3 9	6 37.6-14	7						

Analyzed Bur me

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11



### Analytical Results For:

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

Received:

06/19/2019

Reported:

Project Name: Project Number:

700794.279.01

Project Location:

06/20/2019

**UNION 35 FED BATTERY** 

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019

Soil

Cool & Intact

Tamara Oldaker

### Sample ID: B-1 8' (H902117-08)

Result 0.025 0.025 0.025	Reporting Limit 0.025 0.025	Analyzed 06/20/2019 06/20/2019	Method Blank ND	BS 1.86	% Recovery	True Value QC	RPD	Qualifie
0.025 0.025	0.025		ND	1.86	02.2			
0.025		06/20/2019			93.2	2.00	0.0585	
	0.005		ND	1.90	94.9	2.00	4.68	
	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
0.075	0.075	06/20/2019	ND	6.34	106			
0.150	0.150	06/20/2019	ND				570	
97.1 %	% 90.4-11.	I						
101 %	6 85,3-11-	4						
95.69	6 80.1-12.	1						
mg/kg		Analyzed By: AC						
lesult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
600	16.0	06/20/2019	ND	416	104	400	3.92	2
mg/l	kg	Analyze	d By: MS					
esult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	
10.0	10.0	06/19/2019	ND	183	91.4			
10.0	10.0	06/19/2019	ND				4144	
85.6%	6 41-142	7						
85.4%	6 37.6-147	,						
	97.1 9 101 9 95.6 9 mg/l Result 10.0 10.0 85.6 9	0.150 0.150  97.1 % 90.4-11. 101 % 85.3-11- 95.6 % 80.1-12. mg/kg  Result Reporting Limit 6600 16.0 mg/kg  Result Reporting Limit 610.0 10.0 610.0 10.0 610.0 10.0	0.150 0.150 06/20/2019  97.1 % 90.4-111  101 % 85.3-114  95.6 % 80.1-121  mg/kg Analyzed  6600 16.0 06/20/2019  mg/kg Analyzed  Result Reporting Limit Analyzed  610.0 10.0 06/19/2019  610.0 10.0 06/19/2019  610.0 10.0 06/19/2019  610.0 10.0 06/19/2019	0.150 0.150 06/20/2019 ND  97.1 % 90.4-111  101 % 85.3-114  95.6 % 80.1-121  mg/kg Analyzed By: AC  Result Reporting Limit Analyzed Method Blank  6600 16.0 06/20/2019 ND  mg/kg Analyzed By: MS  Result Reporting Limit Analyzed Method Blank  10.0 10.0 06/19/2019 ND  10.0 10.0 06/19/2019 ND  10.0 10.0 06/19/2019 ND  10.0 10.0 06/19/2019 ND	0.150 0.150 06/20/2019 ND  97.1 % 90.4-111  101 % 85.3-114  95.6 % 80.1-121  mg/kg Analyzed By: AC  Result Reporting Limit Analyzed Method Blank BS  6600 16.0 06/20/2019 ND 416  mg/kg Analyzed By: MS  Result Reporting Limit Analyzed Method Blank BS  10.0 10.0 06/19/2019 ND 194  110.0 10.0 06/19/2019 ND 194  110.0 10.0 06/19/2019 ND 183  110.0 10.0 06/19/2019 ND 183	0.150	0.150	0.150

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 11



### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 SM4500Cl-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

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NIVI 88240 (575) 393-2326 FAX (575) 393-2476

Company rame. 7.2/or		A 277 F 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Project Manager: Offices	P.O. #:	ANALYSIS REQUEST
Address: 408 W Texas		
A tosor		
1631-		
WZ 46600	CYProject Owner: 12/00 City:	
Project Name: Upico 35 /=	State: Zip:	
Project Location: Ecky No	神	17
Sampler Name: (1) 7005	Fax #:	S
COR LAB DISE ONLY	MATRIX	C C
	RS TER	1 E)
Lab I.D. Sample I.D.	R: BASE: COOL	1 k /2
H907177	# CO GROI WAS SOIL OIL SLUD	(
30-10-1	3001 12-14-0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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The state of the s	arrayses. All chins including here for pediglopy-first ingular Tild clients exclusive remery for any slaim arising whether based in contract or fort, shall belimited to the angount paid by the client for the service. In no event shalf-Cautinal bet liable, for incidental or connectional damages, including what including what implication is not event shalf-Cautinal bet liable, for incidental or connectional damages, including what including better competition of the applicable afficient and the connection of the applicable and the connection of the connection of the applicable and the connection of th	I for the of the applicable defined as a second of the applicable
Time.	Phone Residence of the Peak Result.	Phone Result: ☐ Yes ☐ No Add'I Phone #: Fax Result: ☐ Yes ☐ No Add'I Fax #: REMARKS: ☐ Yes ☐ No Add'I Fax #:
Kennquisned Sy: Date:	Received By:	
Delivered By: (Circle One)		
Sampler - UPS - Bus - Other:	opol in	
	Le HY	



June 20, 2019

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: UNION 35 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/19/19 16:25.

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.gov/field/qa/lab">www.tceq.texas.gov/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.

Celen Keens

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/19/2019 06/20/2019

Reported: Project Name:

**UNION 35 FED BATTERY** 

Project Number:

700794.279.01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

06/19/2019 Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

### Sample ID: B2 0-1' (H902118-01)

BTEX 8260B	mg	mg/kg		ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	
Toluene*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND					
Surrogate: Dibromofluoromethane	97.5	% 90,4-11	1						
Surrogate: Toluene-d8	101 9	85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.6	% 80.1-12	1						
Chloride, SM4500CI-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	06/20/2019	ND	416	104	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	06/19/2019	ND	194	97.0	200	5.17	
DRO >C10-C28*	35.4	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	26.0	10.0	06/19/2019	ND			215-2		
Surrogate: 1-Chlorooctane	84,9 9	% 41-142							
Surrogate: 1-Chlorooctadecane	84.69	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

UNION 35 FED BATTERY

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019

Soil

Cool & Intact

Tamara Oldaker

Sample ID: B2 2' (H902118-02)

BTEX 8260B	mg	/kg	Analyz	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	4.000
Toluene*	<0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND		333	2.00	5.17	
Surrogate: Dibromofluoromethane	96.8	% 90.4-11	I					_	
Surrogate: Toluene-d8	101 9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	95.9	% 80.1-12	İ						
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	06/20/2019	ND	416	104	400	3.92	. 6.70
TPH 8015M	mg/	kg	Analyze	d By: MS				7	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2019	ND	194	97.0	200	5.17	Qualifici
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND		241	200	5,55	
Surrogate: 1-Chlorooctane	81.29	6 41-142							
Surrogate: 1-Chlorooctadecane	82.2 9	6 37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



### Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Fax To:

06/19/2019 06/20/2019

UNION 35 FED BATTERY

Project Number:

700794.279.01

Project Location:

Project Name:

Received:

Reported:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/19/2019

Soil

Cool & Intact

Tamara Oldaker

Sample ID: B2 3' (H902118-03)

mg/kg		Analyzed By: ms		Tan D				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	<b>X</b> = 3.11 (3.0
<0.025	0.025	06/20/2019	ND	1.90				
<0.025	0.025	06/20/2019	ND	1.96				
< 0.075	0.075	06/20/2019	ND					
<0.150	0.150	06/20/2019	ND			0.00	5.17	
97.7	% 90.4-11.	1						
99.9	% 85.3-11-	4						
96.1	% 80.1-12	I						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	06/20/2019	ND	416	104	400	3.92	37.50.0
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/19/2019	ND	194	97.0	The state of the s		guanti e
<10.0	10.0	06/19/2019	ND	183				
<10.0	10.0	06/19/2019	ND			200	5.55	
81.1 9	6 41-142	1						
80.79	6 37.6-147	,						
	<0.025 <0.025 <0.025 <0.075 <0.150  97.75  99.95  96.15  mg/  Result  80.0  mg/  Result <10.0 <10.0 <81.15	<0.025	<0.025	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.02019 <0.075 <0.075 <0.075 <0.050 <0.150 <0.150 <0.150 <0.0520 <0.0520 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.072 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <0.075 <td>&lt;0.025</td> <td>&lt;0.025</td> 0.025       06/20/2019       ND       1.86       93.2         <0.025	<0.025	<0.025	<ul> <li>&lt;0.025</li></ul>	<ul> <li>&lt;0.025</li></ul>

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\*=Accredited Analyte

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### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

**UNION 35 FED BATTERY** 

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

06/19/2019

Soil Cool & Intact

Tamara Oldaker

Sample ID: B2 4' (H902118-04)

BTEX 8260B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	
Toluene*	< 0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	<0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	<0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND				14	
Surrogate: Dibromofluoromethane	97.1	% 90.4-11	I						
Surrogate: Toluene-d8	101 9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	94.1	80.1-12	1						
Chloride, SM4500CI-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	06/20/2019	ND	416	104	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	06/20/2019	ND	194	97.0	200	5.17	
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND			450	2.22	
Surrogate: 1-Chlorooctane	86.79	% 41-142							
Surrogate: 1-Chlorooctadecane	87.19	37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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### Analytical Results For:

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

Received:

06/19/2019

Reported:

06/20/2019

Project Name: Project Number:

UNION 35 FED BATTERY

ma/ka

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Date: Sampling Type: 06/19/2019 Soil

. . .

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: B2 5' (H902118-05) BTEX 8260B

2.27.220	mg	тд/кд		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	06/20/2019	ND	1.86	93.2	2.00	0.0585	· Sening.
Toluene*	< 0.025	0.025	06/20/2019	ND	1.90	94.9	2.00	4.68	
Ethylbenzene*	< 0.025	0.025	06/20/2019	ND	1.96	98.2	2.00	1.18	
Total Xylenes*	< 0.075	0.075	06/20/2019	ND	6.34	106	6.00	3.17	
Total BTEX	<0.150	0.150	06/20/2019	ND			0.00	5.17	
Surrogate: Dibromofluoromethane	98.0	% 90.4-11	1						
Surrogate: Toluene-d8	101 9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	95.0	% 80.1-12	1						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/20/2019	ND	416	104	400	3.92	Quanter
TPH 8015M	mg/kg		Analyze	d By: MS	,,,,,	101	700	3.32	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2019	ND	194	97.0	200	5.17	Qualifici
DRO >C10-C28*	<10.0	10.0	06/20/2019	ND	183	91.4	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	06/20/2019	ND		22.1	200	3.33	
Surrogate: 1-Chlorooctane	85.79	6 41-142							
Surrogate: 1-Chlorooctadecane	85.8 %	6 37.6-147	7						

Analyzed By me

### Cardinal Laboratories

\*=Accredited Analyte

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Celey Ditreme -



### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit.

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 SM4500Cl-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

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:		
Project Manager: 2 Tones	P,O, 些	
Address: 408 Col Tex	Company: 10%	3
43	Fax #: Address:	
Project 700784 2700F	CYProject Owner: Joycon Giny:	
Project Name: Union 35 F	State: Zip:	<i>T</i>
Project Location: Eckly North	*	文
Sampler Name: Choras	Fax #	
FOR LAB USE ONLY	MATROC	
Lab I.D. Sample I.D.	AB OR (C)OMP INTAINERS DUNDWATER STEWATER	Alone TPH BTEX
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2		1
w w		1087
4		1/00_
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PLES-SE INV I.E. Liubilly and Damagra. Cogglock is gigling officients or an expensive state of the control of t	-LEASE WOLE: Libbilly and Camages, Coglocis Spilly-Affeciants accusive conecy for any claim antiding whether based in centract er fort, shall belimited to the amount paid by the client for the arrayses, All claims including there for possibly affeciants whatever shall be documed valved unless reade in whiting and received by opidinal which all days after competion of the applicable service. In no event capit Courtleal politicists, are considered and many of the court of profits included by client, is cubalderies, addition, business inscriptions, loss of use, or loss of profits included by client, is cubalderies, addition, business inscriptions, loss of use, or loss of profits included by client, is cubalderies, addition, business inscriptions, loss of use, or loss of profits included by client, is cubalderies, addition, business affects and the part of the slove should be above should be applicable.	aid by the client for the level of the complete of the completion of the applicable of the applicable of the applicable of the applicable of the complete.
	Timp: 25 MANORA MARCH	Phone Result: ☐ Yes ☐ No   Addil Phone #: Fax Result: ☐ Yes ☐ No ·   Addil Fax #: REMARKS:
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(Circle One)	S	1/67.
osniple: - Omer:	S. 90 HOT INO NO TO	



March 27, 2020

**CHRIS JONES** 

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

**RE: UNION 35 FED BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 03/18/20 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.gov/field/ga/lab">www.tceq.texas.gov/field/ga/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)

Whe Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name: Project Number:

**UNION 35 FED BATTERY** 

700794.279.01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

03/17/2020

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

### Sample ID: B - 3 0' (H000834-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	03/19/2020	ND	1.92	95.8	2.00	3.00	
Toluene*	<0.050	0.050	03/19/2020	ND	1.93	96.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	03/19/2020	ND	1.96	98.1	2.00	3.10	
Total Xylenes*	<0.150	0.150	03/19/2020	ND	5.75	95.9	6.00	3.27	
Total BTEX	<0.300	0.300	03/19/2020	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	176	16.0	03/19/2020	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	03/19/2020	ND	203	102	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	03/19/2020	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.5	6 42.2-150	5						

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\*=Accredited Analyte

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



# Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name:

**UNION 35 FED BATTERY** 

Project Number:

700794.279.01

94.2%

42.2-156

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Chiana

Sampling Condition: Sample Received By: 03/17/2020

Soil Cool & Intact

Tamara Oldaker

Sample ID: B - 3 2' (H000834-02)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2020	ND	1.92	95.8	2.00	3.00	
Toluene*	<0.050	0.050	03/19/2020	ND	1.93	96.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	03/19/2020	ND	1.96	98.1	2.00	3.10	
Total Xylenes*	< 0.150	0.150	03/19/2020	ND	5.75	95.9	6.00	3.27	
Total BTEX	<0.300	0.300	03/19/2020	ND				3.27	
Surrogate: 4-Bromofluorobenzene (PIE	101 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	144	16.0	03/19/2020	ND	400	100	400	0.00	3,000
TPH 8015M	mg/	kg	Analyze	d By: MS			177	0,00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2020	ND	203	102	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	03/19/2020	ND		200-	200	1,74	
Surrogate: 1-Chlorooctane	93.8 9	6 44.3-14	1						

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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# Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name: Project Number: UNION 35 FED BATTERY

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

03/17/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

# Sample ID: B - 7 0' (H000834-10)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/19/2020	ND	1.92	95.8	2.00	3.00	
Toluene*	<0.050	0.050	03/19/2020	ND	1.93	96.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	03/19/2020	ND	1.96	98.1	2.00	3.10	
Total Xylenes*	<0.150	0.150	03/19/2020	ND	5.75	95.9	6.00	3.27	
Total BTEX	<0.300	0.300	03/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	96.0	16.0	03/19/2020	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	03/19/2020	ND	203	102	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	03/19/2020	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4		-				
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15							

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\*=Accredited Analyte

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### Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name:

UNION 35 FED BATTERY

Project Number:

700794.279,01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

pling Date:

Sampling Type: Sampling Condition:

lition: Cool & Intact

Sample Received By: Tamara Oldaker

03/17/2020

Soil

Sample ID: B - 7 2' (H000834-11)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/19/2020	ND	1.92	95.8	2.00	3.00	(2)
Toluene*	<0.050	0.050	03/19/2020	ND	1.93	96.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	03/19/2020	ND	1.96	98.1	2.00	3.10	
Total Xylenes*	<0.150	0.150	03/19/2020	ND	5.75	95.9	6.00	3.27	
Total BTEX	<0.300	0.300	03/19/2020	ND			3700	5.27	
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 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	160	16.0	03/19/2020	ND	400	100	400	0.00	Qualifica
TPH 8015M	mg/	kg	Analyze	d By: MS			100	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2020	ND	203	102	200	1.21	Qualific.
DRO >C10-C28*	<10.0	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	03/19/2020	ND			200	1.02	
Surrogate: 1-Chlorooctane	86.0 9	6 44.3-144	1		_				-
Surrogate: 1-Chlorooctadecane	84.69	6 42.2-150	5						

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# Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name: Project Number:

UNION 35 FED BATTERY

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

03/17/2020

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: B - 4 0' (H000834-18)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2020	ND	1.92	95.8	2.00	3.00	
Toluene*	<0.050	0.050	03/19/2020	ND	1.93	96.5	2.00	3.13	
Ethylbenzene*	< 0.050	0.050	03/19/2020	ND	1.96	98.1	2.00	3.10	
Total Xylenes*	<0.150	0.150	03/19/2020	ND	5.75	95.9	6.00	3.27	
Total BTEX	<0.300	0.300	03/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	03/19/2020	ND	400	100	400	0.00	72
TPH 8015M	mg/	kg	Analyze	d By: MS				200	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2020	ND	203	102	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	03/19/2020	ND					
Surrogate: 1-Chlorooctane	88.9	% 44.3-14	1				-		
Surrogate: 1-Chlorooctadecane	89.3	% 42.2-15	5						

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# Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name: Project Number:

UNION 35 FED BATTERY

Project Location:

700794.279.01 DEVON - EDDY COUNTY, NM

Sampling Date:

03/17/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B - 4 2' (H000834-19)

BTEX 8021B	mg/kg		Analyzed By: MS						5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2020	ND	1.92	95.8	2.00	3.00	
Toluene*	0.070	0.050	03/19/2020	ND	1.93	96.5	2.00	3.13	
Ethylbenzene*	0.115	0.050	03/19/2020	ND	1.96	98.1	2.00	3.10	
Total Xylenes*	0.963	0.150	03/19/2020	ND	5.75	95.9	6.00	3.27	
Total BTEX	1.15	0.300	03/19/2020	ND			0.00	3.67	
Surrogate: 4-Bromofluorobenzene (PIL	138	% 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	736	16.0	03/19/2020	ND	400	100	400	0.00	Killing
TPH 8015M	mg/	/kg	Analyzed By: MS				7.50	5,00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.7	10.0	03/19/2020	ND	203	102	200	1.21	
DRO >C10-C28*	1530	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	397	10.0	03/19/2020	ND		757.27		1.02	
Surrogate: 1-Chlorooctane	99.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124 9	6 42.2-150	5						

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### Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name: Project Number:

UNION 35 FED BATTERY 700794.279.01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

03/17/2020

Soil

Cool & Intact Tamara Oldaker

Sample ID: B - 4 4' (H000834-20)

BTEX 8021B	mg,	/kg	Analyzo	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.072	0.050	03/24/2020	ND	2.03	102	2.00	5.09	Qualifici
Toluene*	0.438	0.050	03/24/2020	ND	2.02	101	2.00	4.28	
Ethylbenzene*	1.02	0.050	03/24/2020	ND	2.03	101	2.00	4.76	
Total Xylenes*	3.56	0.150	03/24/2020	ND	5.87	97.8	6.00	5.03	
Total BTEX	5.09	0.300	03/24/2020	ND		7,05	0.00	5.05	
Surrogate: 4-Bromofluorobenzene (PIL	197 9	% 73.3-12	9					-	
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/24/2020	ND	432	108	400	0.00	Qualifica
TPH 8015M	mg/	kg		d By: MS		200	100	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	121	10.0	03/25/2020	ND	211	106	200	1.08	Qualifici
DRO >C10-C28*	2470	10.0	03/25/2020	ND	229	114	200	4.48	
EXT DRO >C28-C36	473	10.0	03/25/2020	ND			200	7.70	
Surrogate: 1-Chlorooctane	114%	6 44.3-144	4						
Surrogate: 1-Chlorooctadecane	126 %	42.2-150	5						

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# Analytical Results For:

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

Received: Reported: 03/18/2020

03/27/2020

Project Name:

**UNION 35 FED BATTERY** 

Project Number: Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

03/17/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B - 4 6' (H000834-21)

BTEX 8021B	mg,	kg	Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2020	ND	2.05	103	2.00	1.44		
Toluene*	0.067	0.050	03/27/2020	ND	2.05	102	2.00	1.65		
Ethylbenzene*	0.257	0.050	03/27/2020	ND	2.05	102	2.00	2.00		
Total Xylenes*	0.982	0.150	03/27/2020	ND	5.99	99.8	6.00	1.83		
Total BTEX	1.31	0.300	03/27/2020	ND						
Surrogate: 4-Bromofluorobenzene (PIL	136	% 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	80.0	16.0	03/27/2020	ND	416	104	400	3.77		
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*	30.4	10.0	03/26/2020	ND	190	95.1	200	9.54		
DRO >C10-C28*	610	10.0	03/26/2020	ND	177	88.3	200	19.9		
EXT DRO >C28-C36	93.4	10.0	03/26/2020	ND .						
Surrogate: 1-Chlorooctane	89.6	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	100 9	6 42.2-15	6							

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### Analytical Results For:

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

Received:

03/18/2020

03/27/2020

Reported: Project Name:

**UNION 35 FED BATTERY** 

Project Number:

700794.279.01 DEVON - EDDY COUNTY, NM

Project Location:

Sampling Date:

03/17/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B - 4 8' (H000834-22)

BTEX 8021B	mg/kg		Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2020	ND	2.05	103	2.00	1.44	
Toluene*	< 0.050	0.050	03/27/2020	ND	2.05	102	2.00	1.65	
Ethylbenzene*	<0.050	0.050	03/27/2020	ND	2.05	102	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/27/2020	ND	5.99	99.8	6.00	1.83	
Total BTEX	<0.300	0.300	03/27/2020	ND			0.00	1.05	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 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	96.0	16.0	03/27/2020	ND	416	104	400	3.77	Carmina
TPH 8015M	mg/	kg	Analyze	d By: MS			100	3.77	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2020	ND	190	95.1	200	9.54	Qualities.
DRO >C10-C28*	12.2	10.0	03/26/2020	ND	177	88.3	200	19.9	
EXT DRO >C28-C36	<10.0	10.0	03/26/2020	ND		7777	200	22.2	
Surrogate: 1-Chlorooctane	84.8 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.4%	6 42.2-150	5						

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# Analytical Results For:

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

Received: Reported: 03/18/2020

03/27/2020

Project Name:

UNION 35 FED BATTERY

Project Number: Project Location: 700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 03/17/2020

Soil

Cool & Intact

Tamara Oldaker

### Sample ID: B - 6 0' (H000834-28)

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	03/20/2020	ND	1.86	92.9	2.00	7.57	
Toluene*	<0.050	0.050	03/20/2020	ND	1.87	93.7	2.00	8.06	
Ethylbenzene*	<0.050	0.050	03/20/2020	ND	1.89	94.6	2.00	8.76	
Total Xylenes*	< 0.150	0.150	03/20/2020	ND	5.48	91.3	6.00	8.55	
Total BTEX	<0.300	0.300	03/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 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	208	16.0	03/19/2020	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	03/19/2020	ND	203	102	200	1.21	
DRO >C10-C28*	919	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	378	10.0	03/19/2020	ND					
Surrogate: 1-Chlorooctane	92.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

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# Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name: Project Number:

**UNION 35 FED BATTERY** 

Project Location:

700794.279.01

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

03/17/2020

Soil

Cool & Intact Tamara Oldaker

Sample ID: B - 6 2' (H000834-29)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/20/2020	ND	1.86	92.9	2.00	7.57	-2-7-3-3-1
Toluene*	<0.050	0.050	03/20/2020	ND	1.87	93.7	2.00	8.06	
Ethylbenzene*	<0.050	0.050	03/20/2020	ND	1.89	94.6	2.00	8.76	
Total Xylenes*	< 0.150	0.150	03/20/2020	ND	5.48	91.3	6.00	8.55	
Total BTEX	<0.300	0.300	03/20/2020	ND			707	0.55	
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 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	176	16.0	03/19/2020	ND	400	100	400	0.00	Ç
TPH 8015M	mg/	kg	Analyze	d By: MS				0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2020	ND	203	102	200	1.21	- Common
DRO >C10-C28*	621	10.0	03/19/2020	ND	205	102	200	1.32	
EXT DRO >C28-C36	324	10.0	03/19/2020	ND		D. Ph.	9-2	TIDE	
Surrogate: 1-Chlorooctane	91.79	% 44.3-14-	1						
Surrogate: 1-Chlorooctadecane	102 %	6 42.2-156	ς.						

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# Analytical Results For:

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

Received:

03/18/2020

Reported:

03/27/2020

Project Name:

UNION 35 FED BATTERY

Project Number:

700794.279.01

Project Location:

DEVON - EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 03/17/2020 Soil

Cool & Intact

Tamara Oldaker

Sample ID: B - 6 4' (H000834-30)

BTEX 8021B	mg/kg		Analyzo	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2020	ND	2.03	102	2.00	5.09	- Qualifica
Toluene*	<0.050	0.050	03/24/2020	ND	2.02	101	2.00	4.28	
Ethylbenzene*	< 0.050	0.050	03/24/2020	ND	2.03	101	2.00	4.76	
Total Xylenes*	< 0.150	0.150	03/24/2020	ND	5.87	97.8	6.00	5.03	
Total BTEX	<0.300	0.300	03/24/2020	ND		5.45	0.00	5.05	
Surrogate: 4-Bromofluorobenzene (PIE	99.09	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/24/2020	ND	432	108	400	0.00	Qualifici
TPH 8015M	mg/	kg	Analyzed By: MS				100	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2020	ND	211	106	200	1.08	Qualifici
DRO >C10-C28*	<10.0	10.0	03/24/2020	ND	229	114	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	03/24/2020	ND			200	1.10	
Surrogate: 1-Chlorooctane	81.8 %	6 44.3-144	i						
Surrogate: 1-Chlorooctadecane	90.8%	6 42.2-156	5						

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### **Notes and Definitions**

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
Analyte NOT DETECTED at or above the reporting limit
Relative Percent Difference
Samples not received at proper temperature of 6°C or below.
Insufficient time to reach temperature.
Chloride by SM4500Cl-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

Cardinal Laboratories

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Relinquished By:

02-18-50 1 holy 18-20

Received By:

1230

Sampler-UPS - Bus - Other:

2.1c

CHECKED BY

100 mg/kg TPH, 50 mg/kg BTEK).

are

for each

Sample group; test until

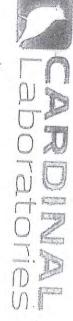
levels

levels (600 3/kg c1,

10+4

Y Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Delivered By: (Circle One)



101 East Mariand, Hobbs, NM 88240 (878) 393-2326 FAX (875) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 6-3 6 5 6-3 8 7 6-3 10 7 6-3 15 8 8-3 25 9 8-3 25 10 8-7 0 10 88-10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	the territory	6
4 B-3 6 10:04  5 B-3 8 10  6 B-3 10  7 B-3 10  10:08  10:08  10:09  10:1	WASTEWATER SOIL JAN OIL SLUDGE OTHER	P.O. #: 700794, 279.0
	DETEX Diotal Chlorides	ANALYSIS REQUEST

Sampler - UPS - Bus - Other Delivered By: (Circle One)

2100

D

C2-8/15E Time: 33

For each sample group: test

until levels

t

below max

levels.

0-15

f Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (675) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Tolere manager C		FIRST COLO ZOCCTO
10	0794.2	
The second secon	Nin: 8800 Company:	
71		
279.01	Project Owner: Davon Freen City:	
n JSA Fe	10	les
Project Location: Edy County	1	
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	RS TER	EX
+306834 Sample I.O.	(G)RAB OR (G)RAB	TPH BTEX Total
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Relinquished By:

3-18-20 430

For each

Sample

group:

test until

levels

40

below mex

levels.

8-212

Received By:

Sampler - UPS - Bus - Other:

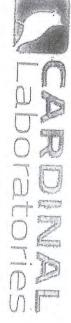
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#113

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Delivered By:

(Gircle One)



101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARI JANOS	P.O. # 700794 778 C	ANALYSIS REQUEST
Chr. Artic. W Texas Ave		
Phone #: 5 7 5 - 491-6460 Fax #:	Zip: 88210 Attn: Chris Jon	
279.01	Project Owners Davon Freen City:	,
Broing warmer union 35 A Fed Bt+	10	les
Enler Formalis For	验	
complet name:	Fax #	
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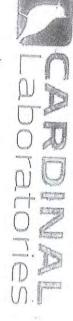
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Y Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Delivered Byy



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

PLEASE NOTE: Liability and Damages. Cardinate liability and eliants unclusive remark) for any claim analyg whether based in contract or fail, shall be light analyses. All claims including these for registerors and any other cause whethere shall be deemed viewed unless made in while year treated by Cardinate in the cardinate is liable for incidental or consequently demages, including without incident, before the treated by Cardinate of the cardi Sampler Name; Project Location: Fdd H000 854 Project Name: Union Project #: 700794, 278,01 Phone # 575-491-6460 Project Manager: Chr. 5 Company Name: Ton Address: 408 W Lab LD. 33 6-6 S 32 M 63 8-6 Brandon Texas C.I oldures 6 0 Loun Jones Project Owner Devon Freedy Fax 统 State: N M Battery (G)RAB OR (C)OMP. ZIP: 882/0 # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: State: City: Fax 表 Phone 强: Aftn: Address P.O. #: 700794. 279.01 Company: Talon (P)= ACID/BASE: ICE / COOL armist to the expount paid by the pitent for the applicable within 90 days after completion of the applicable see of profits incurred by ofent, its subsidiaries, Chr is OTHER: 3-17-20 13:06 DATE SAMPLING TO THE Jon es 08.81 13:20 30.81 13:10 TIME Chlorides ANALYSIS REQUES