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## Remediation and Closure Report

Peterson Booster #1 Tank Battery  
Eddy County, New Mexico  
Incident #NRM2016027552

### Prepared For:

Lime Rock Resources II-A, L.P.  
1111 Bagby Street, Suite 4600  
Houston, TX 77002

### Prepared By:

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

July 20, 2020

Mr. Mike Bratcher  
**NMOCD District 2**  
811 South First Street  
Artesia, New Mexico, 88210

Ms. Crisha Morgan  
**Bureau of Land Management**  
600 East Green Street  
Carlsbad, New Mexico 88220

Subject: **Remediation and Closure Report**  
Peterson Booster #1 Tank Battery  
Eddy County, NM  
Incident #NRM2016027552

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

### Site Information

The Peterson Booster #1 tank battery is located approximately 11.4 miles east of Artesia, New Mexico. The legal location for this release is Unit Letter L, Section 08, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.760405 North and -104.308686 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land. The referenced soil data is attached in [Appendix II](#). The local surface and shallow geology is Guadalupian in age and is comprised of residuum weathered from gypsum. Drainage courses in this area are typically dry. The project site is located in a high Karst potential area (Karst Map, Figure 4, [Appendix I](#)).

## Groundwater and Site Characterization

The New Mexico Office of the State Engineer (NMOSE) web site indicates that the nearest reported well site is 1 mile away and depth to groundwater is 8-feet below ground surface (BGS). The United States Geological Survey (USGS) web site indicates that the nearest reported well site is 0.94 miles from the location and depth to groundwater is approximately 11-feet BGS. See [Appendix II](#) for the referenced groundwater data.

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

Approximate Depth to Groundwater		11 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or a playa lake	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any freshwater well or spring	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

As this incident occurred in an area with a reported depth to groundwater of less than 50-feet BGS and is located in a high potential Karst area, the closure criteria for this site is as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On May 31, 2020, 1,450 barrels (bbls), of produced water were released due to a failed connection on the discharge side of the transfer pump. 1,430 bbls remained inside the lined containment and were recovered utilizing vac trucks. Approximately 20 bbls of fluid over-sprayed onto the well pad and into the surrounding pasturelands. The release area is shown on the site plan (Figure 1) presented in [Appendix I](#). An initial C-141 was submitted on June 2, 2020 and is provided in [Appendix III](#). Incident number NRM2016027552 was assigned by the NMOCD for this release.

### Site Assessment

On June 01, 2020, Talon mobilized personnel to begin site assessment, and sampling activities of the impacted area. Grab samples were obtained utilizing a hand auger. Analytical results from our initial sampling event are presented in the following data table. Initial site assessment sampling locations are illustrated on the Initial Sample Map, Figure 1, [Appendix I](#), and photographs of impacted area are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix VI](#).



Table 1 : Initial Soil Sample Analysis

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	Field Titrations
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg	Chlorides
S-1	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	29000	2763.2
		1' R	ND	ND	ND	ND	ND	0	4500	2417.8
S-2	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	7000	2763.2
		1'	ND	ND	ND	ND	ND	0	210	186.52
		2' R	ND	ND	ND	ND	ND	0	150	89.8
S-3	6/1/2020	0-0.5'	ND	ND	ND	46	ND	46	9300	248.69
		1'	ND	ND	ND	ND	ND	0	72	82.89
		2'	ND	ND	ND	ND	ND	0	200	248.69
		2.5' R	ND	ND	ND	ND	ND	0	330	248.69
S-4	6/1/2020	0-0.5'	ND	ND	ND	600	330	930	11000	2763.2
		1'	ND	ND	ND	ND	ND	0	710	690.8
		2'	ND	ND	ND	22	ND	22	210	165.79
		3'	ND	ND	ND	ND	ND	0	540	497.38
		3.5'	ND	ND	ND	32	ND	32	720	518.1
S-5	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	13000	6908
		1' R	ND	ND	ND	ND	ND	0	9500	2763.2
S-6	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	9100	2763.2
		1'	ND	ND	ND	ND	ND	0	190	207.24
		2'	ND	ND	ND	ND	ND	0	ND	55.26
		2.5' R	ND	ND	ND	ND	ND	0	100	69.08
S-7	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	ND	41.45
		1' R	ND	ND	ND	ND	ND	0	ND	55.26
S-8	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	9000	5526.4
		0.75' R	ND	ND	ND	ND	ND	0	8400	2763.2
S-9	6/1/2020	0'	ND	ND	ND	ND	ND	0	10000	4144.8
		0.5' R	ND	ND	ND	ND	ND	0	15000	2763.2
S-10	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	9300	2763.2
		1' R	ND	ND	ND	ND	ND	0	ND	48.36
S-11	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	ND	89.8
		1' R	ND	ND	ND	ND	ND	0	ND	62.17
BG-1	6/1/2020	0-0.5'	ND	ND	ND	ND	ND	0	ND	34.54

ND=Analyte Not Detected R= REFUSAL

Based on the results of our site assessment and upon a cleared archeological survey completed by Boone Archeological Resource Consultants, LLC, excavation activities of the impacted areas commenced.

The spill areas on location and in the pasture where excavated using field chloride titration results to guide the horizontal and vertical extents of the excavation.

Confirmation samples were collected to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation sample locations on location and in the pasture can be found on the location sample map (Figure 2) and pasture sample map (Figure 3) in [Appendix I](#). Complete laboratory reports are attached in [Appendix VI](#).

Table 2: Confirmation Soil Sample Analysis

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	Field Titrations
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	DRO + GRO combined = 100 mg/kg			100 mg/kg	600 mg/kg	Chlorides
LS-1A	6/16/2020	2'	NT	NT	NT	NT	NT	0	416	267.3
LS-2A	6/16/2020	2'	NT	NT	NT	NT	NT	0	192	141.8
LS-3	6/16/2020	2'	NT	NT	NT	NT	NT	0	320	297.78
LS-4	6/16/2020	2'	NT	NT	NT	NT	NT	0	400	326.14
LS-5	6/16/2020	2	NT	NT	NT	NT	NT	0	352	283.6
LS-7	6/16/2020	2'	NT	NT	NT	NT	NT	0	416	354.5
LS-8	6/16/2020	2'	NT	NT	NT	NT	NT	0	416	326.14
LS-9	6/16/2020	2'	NT	NT	NT	NT	NT	0	352	283.6
LS-10	6/16/2020	2'	NT	NT	NT	NT	NT	0	208	212.7
LS-11	6/16/2020	2'	NT	NT	NT	NT	NT	0	128	106.35
LS-12	6/16/2020	2'	NT	NT	NT	NT	NT	0	320	327.6
LS-13	6/16/2020	2'	NT	NT	NT	NT	NT	0	320	248.15
LS-14	6/16/2020	2'	NT	NT	NT	NT	NT	0	352	320.25
LS-16	6/16/2020	2'	NT	NT	ND	ND	ND	0	224	248.15
PS-3	6/16/2020	1'	NT	NT	NT	NT	NT	0	16	106.35
PS-6	6/16/2020	1'	NT	NT	NT	NT	NT	0	ND	85.08
PS-8	6/16/2020	2'	NT	NT	NT	NT	NT	0	ND	70.9
PS-9	6/16/2020	1'	NT	NT	NT	NT	NT	0	16	106.35
PS-10	6/16/2020	1'	NT	NT	NT	NT	NT	0	32	85.08
E.SW-3	6/16/2020	2'	NT	NT	NT	NT	NT	0	48	106.35
E.SW-4	6/16/2020	1'	NT	NT	NT	NT	NT	0	32	70.9
W.SW-2	6/16/2020	2'	NT	NT	NT	NT	NT	0	16	35.45
W.SW-3	6/16/2020	1'	NT	NT	NT	NT	NT	0	144	70.9

LS = Location Sample PS = Pasture Sample NT = Analyte Not Tested ND = Analyte Not Detected

### Remedial Actions

- The impacted areas on the location in the vicinity of location sample points LS-1A through LS-16 were excavated to a total depth of 2-feet BGS.
- The impacted areas in the pasture at pasture sample points PS-3, PS-6, PS-9, and PS-10 were excavated to 1-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottoms of the excavated areas to verify that all contaminants above closure criteria levels had been removed. The analytical results are shown on Table 2 and the corresponding lab reports may be found in [Appendix VI](#).
- All the excavated material (495.6 tons) was transported to Lea Land, a NMOCD approved solid waste disposal facility.

- The excavated areas on the well pad were backfilled with new caliche, brought to grade, machine compacted and contoured to match the surrounding location.
- Pasture excavated areas were re-contoured with surrounding material to match the existing terrain, seeded with BLM #4 seed mixture and watered. The seeding labels are attached in [Appendix V](#).
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

### Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Lime Rock Resources II-A, L.P. we request that no further actions be required, and that closure of this incident be granted.

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

Respectfully submitted,

TALON/LPE



Michael Collier  
Environmental Tech II



David J. Adkins  
Regional Manager

#### Attachments:

- Appendix I Site Maps
- Appendix II Groundwater Data, Soil Survey, & FEMA Flood Map
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Seed Labels
- Appendix VI Laboratory Data

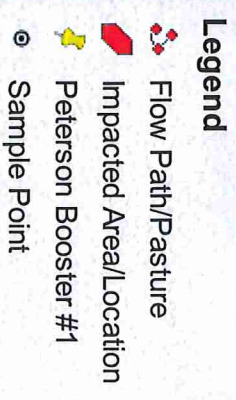


# APPENDIX I

## SITE PLANS



Limerock Resources II-A, L.P.  
Eddy County, NM  
Initial Sample Map  
Figure 1



Page 9 of 90  
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# Peterson Booster #1




Limerock Resources II-A, L.P.

Eddy County, NM


Location Sample Map

Figure 2

## Legend

-  Location Impact Area
-  Peterson Booster #1
-  Sample Map

QLS-16

 Peterson Booster #1

QN.SW-3

QN.SW-2

W.SW

QLS-15

QLS-14

QLS-13

QLS-12

QLS-2A

QLS-11

QLS-10

QLS-1A

QLS-7

QLS-6

QLS-5

QLS-4

QLS-3

QESW-1

QLS-9

QLS-8

QESW-2

QESW-2

QN.SW-1

QESW-3

QESW-1

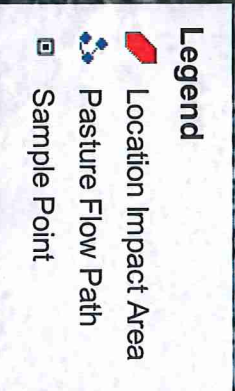
Google Earth



60 ft



Limerock Resources II-A, L.P.  
Eddy County, NM  
Pasture Sample Map  
Figure 3



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100 ft





Limerock Resources II-A, L.P.  
Eddy County, NM  
Karst Map  
Figure 4

**Legend**

- High
- Low
- Medium

Medium

## Peterson Booster #1

# Peterson Booster #1

# Google Earth

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4000 ft





# Peterson Booster #1

Limerock Resources II-A, L.P.

Eddy County, NM

Location Map

Figure 5

**Legend**  
 Peterson Booster #1

Peterson Booster #1

Brainard Lake

Chalk Bluff Rd

Google Earth



# Peterson Booster #1

Limerock Resources II-A, L.P.

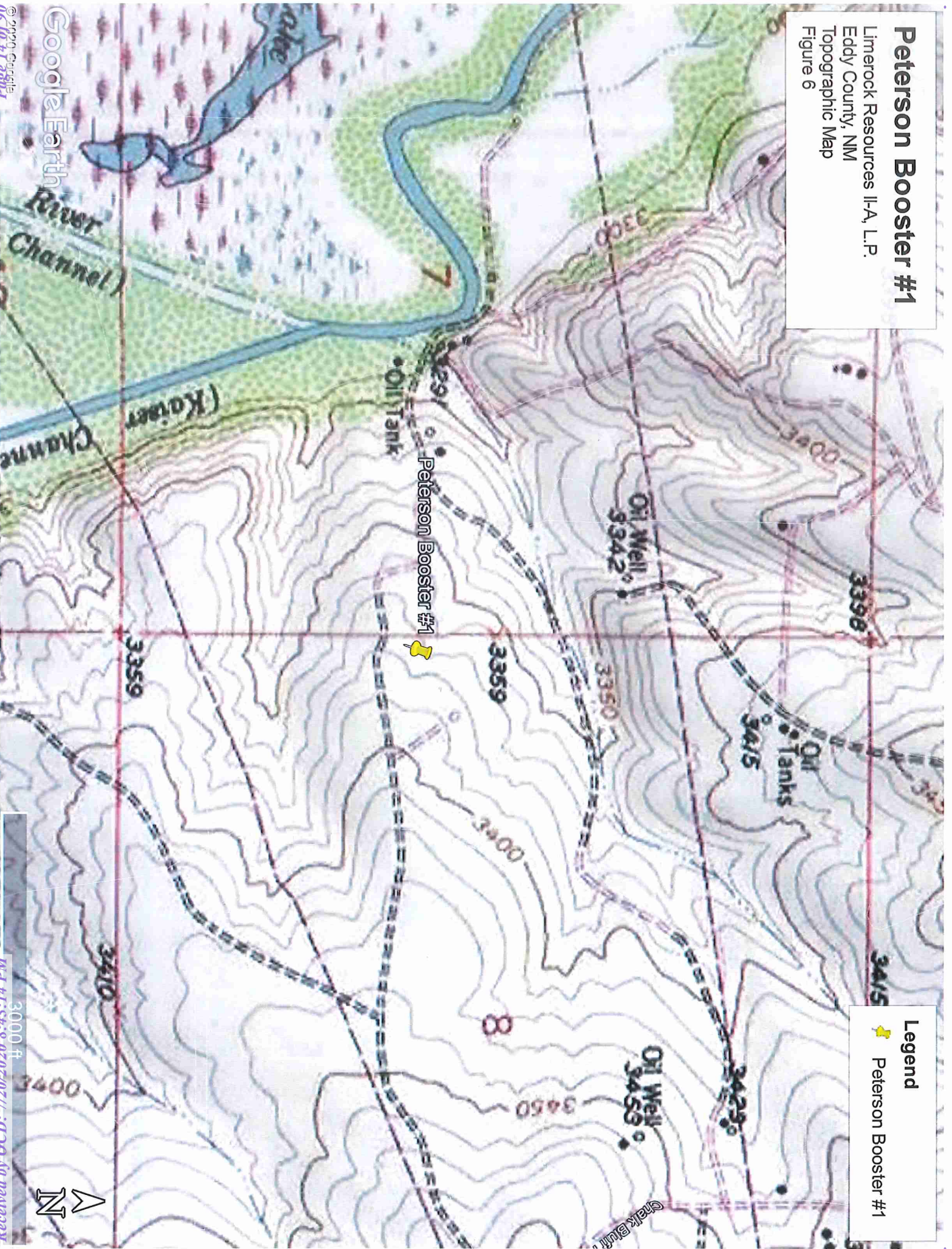
Eddy County, NM

Topographic Map

Figure 6

## Legend

 Peterson Booster #1





## **APPENDIX II**

**GROUNDWATER DATA**

**SOIL SURVEY**

**FEMA FLOOD ZONE**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 05989</a>	RA	ED		3	2	4	01	18S	26E	562774	3626466*	2496	72	8	64
<a href="#">RA 04298</a>	RA	ED		1	2	19	18S	27E	564082	3622523*		2505	92		

Average Depth to Water: 8 feet

Minimum Depth: 8 feet

Maximum Depth: 8 feet

Record Count: 2

### Basin/County Search:

County: Eddy

### UTMNAD83 Radius Search (in meters):

Easting (X): 564749

Northing (Y): 3624938.3

Radius: 3000

\*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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER





## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

(R=POD has been replaced,  
O=orphaned,








C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<u>RA 03714</u>		RA	CH	4	4	2	08	18S	27E	566212	3625253*	1471	381		
<u>RA 05989</u>		RA	ED	3	2	4	01	18S	26E	562774	3626466*	2514	72	8	64
<u>RA 04298</u>		RA	ED		1	2	19	18S	27E	564082	3622523*	2515	92		
<u>RA 02432</u>		RA	ED	2	3	1	12	18S	26E	561764	3625443*	3051	100		
<u>RA 03661</u>		RA	ED	3	2	3	32	17S	27E	565186	3628038*	3123	330	140	190
<u>RA 03664</u>		RA	CH	3	2	3	32	17S	27E	565186	3628038*	3123	400	100	300
<u>RA 03409</u>		RA	ED	1	4	2	24	18S	26E	562763	3622210*	3392	175	18	157
<u>RA 02132 B</u>		RA	ED	1	2	1	24	18S	26E	561958	3622611*	3655	166		
<u>RA 01343 CLW</u>	O	RA	CH	1	2	4	14	18S	26E	561157	3623417*	3925	150	23	127
<u>RA 00012</u>	O	RA	ED		3	4	11	18S	26E	560858	3624531*	3937	600		
<u>RA 03596</u>		RA	ED		3	4	11	18S	26E	560858	3624531*	3937	1736		
<u>RA 12740 POD1</u>		RA	ED	2	3	2	14	18S	26E	560985	3623759	3968	150	86	64
<u>RA 03600</u>		RA	ED	2	3	2	14	18S	26E	560956	3623821*	3979	955		
<u>RA 03634</u>		RA	ED	3	1	4	11	18S	26E	560757	3624835*	4018	1797		
<u>RA 00012 A</u>		RA	ED	3	3	4	11	18S	26E	560757	3624430*	4049	600		
<u>RA 12483 POD3</u>		RA	ED	1	4	4	14	18S	26E	561120	3623003	4136	58	47	11
<u>RA 12483 POD2</u>		RA	ED	1	4	4	14	18S	26E	561084	3622999	4170	62	51	11
<u>RA 12483 POD5</u>		RA	ED	1	4	4	14	18S	26E	561126	3622920	4171	59	53	6
<u>RA 12483 POD1</u>		RA	ED	1	4	4	14	18S	26E	561070	3623006	4179	72	55	17
<u>RA 12483 POD4</u>		RA	ED	1	4	4	14	18S	26E	561086	3622959	4186	60	48	12
<u>RA 03585</u>		RA	ED	4	1	4	14	18S	26E	560955	3623216*	4190	1849		
<u>RA 03900</u>		RA	ED	1	3	1	24	18S	26E	561557	3622206*	4223	845	90	755
<u>RA 03639</u>		RA	ED	4	4	3	11	18S	26E	560555	3624429*	4250	1710		
<u>RA 03917</u>		RA	LE	4	1	2	10	18S	27E	569019	3625660*	4305	130	50	80
<u>RA 03750</u>		RA	ED		3	4	24	18S	26E	562465	3621299*	4313	110	35	75
<u>RA 12280 POD1</u>		RA	ED	1	4	2	30	18S	27E	564352	3620584	4377	25	13	12
<u>RA 12280 POD3</u>		RA	ED	4	4	2	30	18S	27E	564647	3620494	4449	29	17	12
<u>RA 02043</u>		RA	ED				02	18S	26E	560654	3626749*	4498			
<u>RA 12280 POD2</u>		RA	ED	3	4	2	30	18S	27E	564502	3620428	4521	25	18	7
<u>RA 00773</u>		RA	ED		1	2	23	18S	26E	560856	3622508*	4612			
<u>RA 00774</u>		RA	ED		1	2	23	18S	26E	560856	3622508*	4612			
<u>RA 00775</u>		RA	ED		1	2	23	18S	26E	560856	3622508*	4612	900		
<u>RA 04211</u>		RA	CH		3	1	28	18S	27E	566512	3620562*	4712	120	100	20

<u>RA 00011</u>	O	RA	ED	3	3	11	18S	26E	560054	3624529*		4738	1100			
<u>RA 00011 A</u>		RA	ED	3	3	11	18S	26E	560054	3624529*		4738	1100			
<u>RA 06091</u>		RA	ED	1	2	3	29	18S	27E	565211	3620222*		4740	90	17	73
<u>RA 03731</u>		RA	ED	1	1	1	14	18S	26E	559953	3624223*		4874	120	30	90
<u>RA 01288</u>		RA	ED	3	3	3	02	18S	26E	559950	3626045*		4948	186	50	136
<u>RA 01288 CLW319630</u>	O	RA	ED	3	3	3	02	18S	26E	559950	3626045*		4948	200		
<u>RA 09374</u>		RA	ED	2	1	1	25	18S	26E	561759	3620995*		4966	101		

Average Depth to Water: 49 feet  
Minimum Depth: 8 feet  
Maximum Depth: 140 feet

Record Count:40

UTMNAD83 Radius Search (in meters):

Easting (X): 564774

Northing (Y): 3624941.848

Radius: 5000

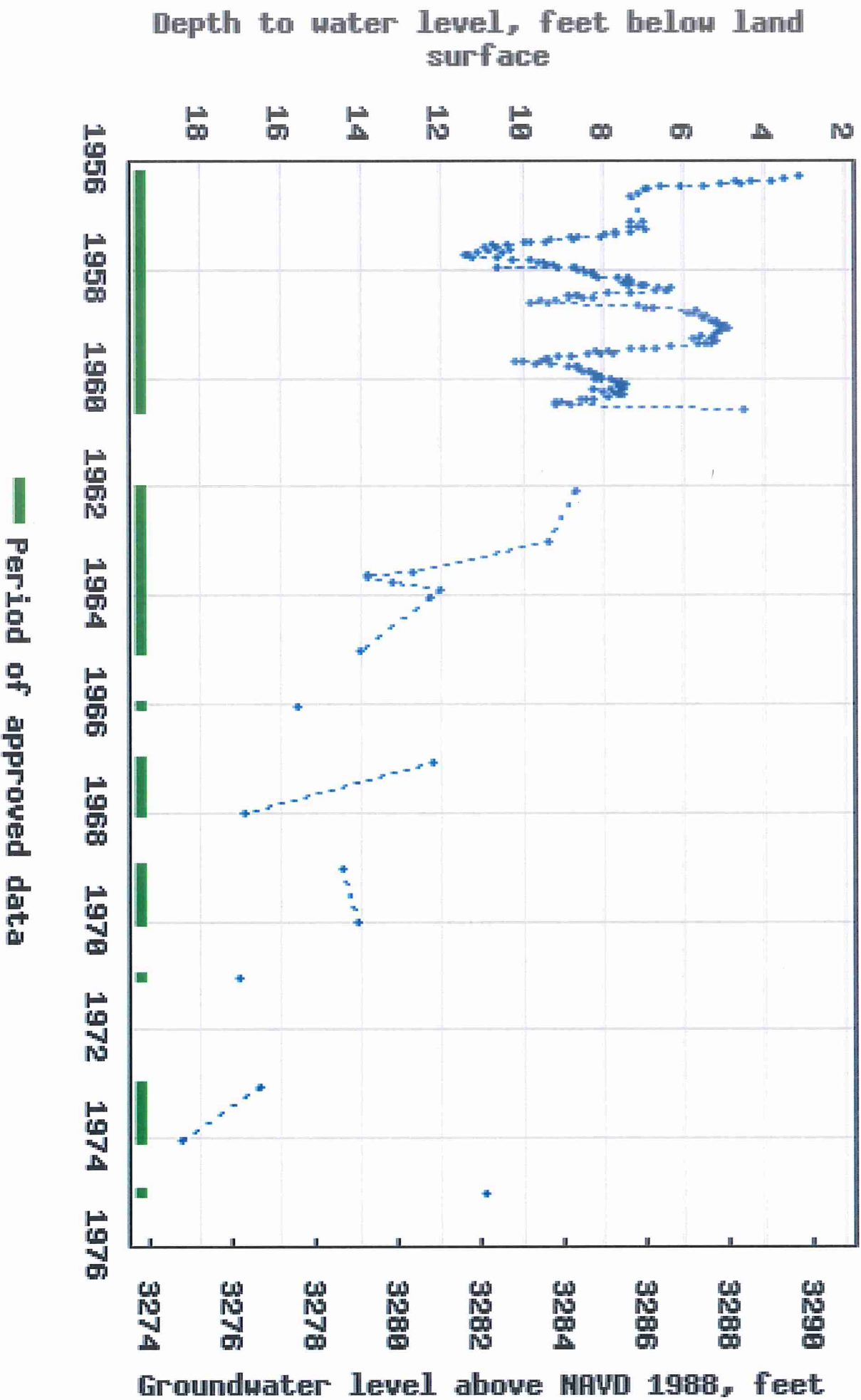
\*UTM location was derived from PLSS - see Help

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.

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WATER COLUMN/ AVERAGE DEPTH TO  
WATER

USGS 324522104195901 185.26E.12.433342





# Peterson Booster #1

Distance from USGS Water Site to Location. 1.45 miles

## Legend

 Distance from USGS Water Site to Location

Peterson Booster #1

Brainard Lake

USGS Water Site

Jones D #001 Battery  
SS-6

Google Earth

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06-10-02 0804



2000 ft

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File Edit View Settings Tools Help



## Eddy Area, New Mexico

### GA—Gypsum land

#### Map Unit Setting

*National map unit symbol:* 1w4f  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 66 degrees F  
*Frost-free period:* 190 to 225 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Gypsum land:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Gypsum Land

##### Setting

*Landform:* Plains, ridges, hills  
*Landform position (two-dimensional):* Backslope, footslope, shoulder, toeslope  
*Landform position (three-dimensional):* Side slope, crest, nose slope, head slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8s  
*Hydric soil rating:* No

#### Minor Components

##### Reeves

*Percent of map unit:* 1 percent  
*Ecological site:* Salty Bottomland (R042XC033NM)  
*Hydric soil rating:* No

##### Cottonwood

*Percent of map unit:* 1 percent  
*Ecological site:* Salty Bottomland (R042XC033NM)  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
 Survey Area Data: Version 15, Sep 15, 2019

# National Flood Hazard Layer FIRMette



32°45'52.59"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, AE9 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
----------------------------	--

OTHER AREAS OF FLOOD HAZARD	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 J) Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee, See Notes, Zone X Area with Flood Risk due to Levee Zone D
-----------------------------	--

OTHER AREAS	Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

OTHER FEATURES	20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
----------------	---

MAP PANELS	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 represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/3/2020 at 9:49:16 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



## **APPENDIX III**

**INITIAL C-141**

**FINAL C-141**

**BLM SUNDRY 3160**



State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	NRM2016027552
Facility ID	
Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Mike Barrett

Title: Production Superintendent

Signature: 

Date: 7/20/2020

email: [mbarrett@limerockresources.com](mailto:mbarrett@limerockresources.com)

Telephone: 575-365-9724

### OCD Only

Received by: Cristina Eads

Date: 07/20/2020

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

Closure Approved by: D E N I E D

Date: 09/17/2020

Printed Name: Cristina Eads

Title: Environmental Specialist

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Lime Rock Resources	OGRID 277558
Contact Name: Michael Barrett	Contact Telephone 575-365-9724
Contact email: mbarrett@limerockresources.com	Incident # (assigned by OCD)
Contact mailing address: 1111 Bagby St., Suite 4600 Houston, TX 77002	

### Location of Release Source

Latitude 32.760405 Longitude -104.308686  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Peterson Booster # 1	Site Type: Tank Battery
Date Release Discovered: 05-31-2020	API#

Unit Letter	Section	Township	Range	County
L	08	18S	27E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: Richard Gatewood)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 1,450	Volume Recovered (bbls): 1,430
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

A failed connection on the discharge side of the transfer pump resulted in a release of approximately 1,450 barrels (bbls) of produced water; 1,430 bbls of which remained in the lined containment and was recovered utilizing vac trucks. Approximately 20 bbls of fluids over sprayed onto the well pad and into the surrounding pasturelands. The transfer pump has been repaired. Talon/LPE was retained to do site assessment and remediation activities.

Form C-141

Page 2


State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  This spill is greater than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, same day (5/31/20) email notification of NMOCD and BLM by David Adkins with Talon/LPE. A same day voice mail was also left for Mike Bratcher with the NMOCD regarding the release.	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:   	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Michael Barrett Signature:  email: <a href="mailto:mbarrett@limerockresources.com">mbarrett@limerockresources.com</a>	Title: Production Superintendent Date: 6-2-20 Telephone: 575-365-9724
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	



Form 3160-5  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*****SUBMIT IN TRIPLICATE – Other instructions on page 2.**

## 1. Type of Well

☐ Oil Well    ☐ Gas Well    ☒ Other Tank Battery2. Name of Operator  
Lime Rock Resources3a. Address  
1111 bagby St., Suite 4600  
Houston, TX 77002 Mike Barrett3b. Phone No. (include area code)  
575.365.97244. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit L, Section 08, Township 18 South, Range 27 East  
Lat. 32.76045, Long. -104.308686

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.  
Peterson Booster #1

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State  
Eddy County, New Mexico

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Remediation
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Lime Rock Resources will cause a disturbance in the pasture lands near the tank battery during remediation of produced water flow paths caused by overspray. This area was cleared by an Arch Survey completed by Boone Archeological.

Upon completion of remediation activities, the disturbed areas will be backfilled with locally obtained like materials and contoured to match the surrounding terrain. The work areas will then be seeded with BLM #4 seed mix and watered.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
David J. Adkins

Title District Manager, Talon/LPE

Signature

Date 06/11/2020

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



## APPENDIX IV

# PHOTOGRAPHIC DOCUMENTATION



## Lime Rock Resources- Peterson Booster #1

### PHOTO DOCUMENTATION



Location Signage



Location Impact



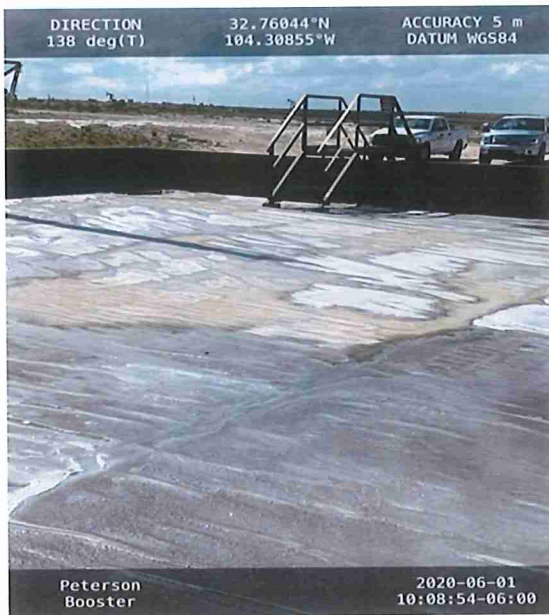
Impacted Flow Path



Impacted Flow Path



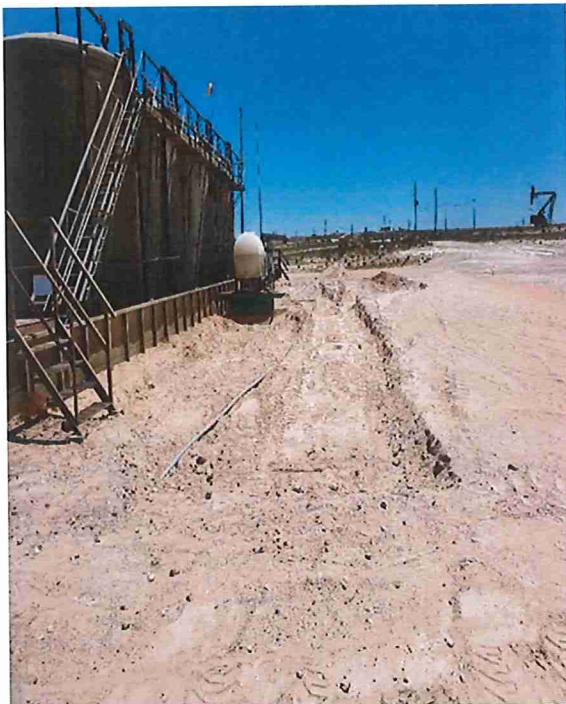
## Lime Rock Resources- Peterson Booster #1



Secondary Containment Cleaned Out



Location Excavation



Location Excavation



Flow Path Excavation



## Lime Rock Resources- Peterson Booster #1



Flow Path Excavation



Location Completed



Flow Path/Pasture Completed



## APPENDIX V

# SEEDING LABELS



**Curtis and Curtis Seed**

4500 North Prince  
Clovis, NM 88101  
Phone: (575) 762-4759  
www.curtisseed.com

701307.131.01

**BLM 4**  
**Seed Mix**

Lot#: 1862

Item	Origin	Purity	Clean	Dormant	Total Viable	Test Date
Alkali Sacaton	New Mexico	8.94%	82.00%	16.00%	98.00%	03/20
Variety Not Stated						
Four-Wing Saltbush	New Mexico	83.42%	21.00%	35.00%	56.00%	01/20
Variety Not Stated						

Other Crop: 0.69% There Are 2 Bags For This Mix Total Bulk Pounds: 68.50  
Weed Seed: 0.01% This Bag Weighs 34.25 Bulk Pounds  
Inert Matter: 6.94% Use This Bag For 1 Acres Broadcast Rate  
Noxious: None

2 Acres Broadcast

**Curtis and Curtis Seed**

4500 North Prince  
Clovis, NM 88101  
Phone: (575) 762-4759  
www.curtisseed.com

701307.131.01

**BLM 4**  
**Seed Mix**

Lot#: 1862

Item	Origin	Purity	Clean	Dormant	Total Viable	Test Date
Alkali Sacaton	New Mexico	8.94%	82.00%	16.00%	98.00%	03/20
Variety Not Stated						
Four-Wing Saltbush	New Mexico	83.42%	21.00%	35.00%	56.00%	01/20
Variety Not Stated						

Other Crop: 0.69% There Are 2 Bags For This Mix Total Bulk Pounds: 68.50  
Weed Seed: 0.01% This Bag Weighs 34.25 Bulk Pounds  
Inert Matter: 6.94% Use This Bag For 1 Acres Broadcast Rate  
Noxious: None

2 Acres Broadcast



## APPENDIX VI

# LABORATORY DATA





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

June 08, 2020

David Adkins  
Talon Artesia  
408 West Texas Ave  
Artesia, NM 88210  
TEL:  
FAX:

RE: Peterson Booster

OrderNo.: 2006128

Dear David Adkins:

Hall Environmental Analysis Laboratory received 31 sample(s) on 6/3/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 9:00:00 AM

Lab ID: 2006128-001

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	29000	1500		mg/Kg	500	6/4/2020 8:03:31 AM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/3/2020 12:04:14 PM	G69388
Surr: BFB	95.2	70-130		%Rec	1	6/3/2020 12:04:14 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/3/2020 3:06:22 PM	52854
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2020 3:06:22 PM	52854
Surr: DNOP	91.6	55.1-146		%Rec	1	6/3/2020 3:06:22 PM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	6/3/2020 12:04:14 PM	R69388
Toluene	ND	0.036		mg/Kg	1	6/3/2020 12:04:14 PM	R69388
Ethylbenzene	ND	0.036		mg/Kg	1	6/3/2020 12:04:14 PM	R69388
Xylenes, Total	ND	0.072		mg/Kg	1	6/3/2020 12:04:14 PM	R69388
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	6/3/2020 12:04:14 PM	R69388
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	6/3/2020 12:04:14 PM	R69388
Surr: Dibromofluoromethane	104	70-130		%Rec	1	6/3/2020 12:04:14 PM	R69388
Surr: Toluene-d8	101	70-130		%Rec	1	6/3/2020 12:04:14 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 41



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-1@1'

Project: Peterson Booster

Collection Date: 6/1/2020 9:01:00 AM

Lab ID: 2006128-002

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	4500	150		mg/Kg	50	6/4/2020 8:15:56 AM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	6/3/2020 12:32:50 PM	G69388
Surr: BFB	102	70-130		%Rec	1	6/3/2020 12:32:50 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/3/2020 4:42:59 PM	52854
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/3/2020 4:42:59 PM	52854
Surr: DNOP	90.7	55.1-146		%Rec	1	6/3/2020 4:42:59 PM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	6/3/2020 12:32:50 PM	R69388
Toluene	ND	0.040		mg/Kg	1	6/3/2020 12:32:50 PM	R69388
Ethylbenzene	ND	0.040		mg/Kg	1	6/3/2020 12:32:50 PM	R69388
Xylenes, Total	ND	0.081		mg/Kg	1	6/3/2020 12:32:50 PM	R69388
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	6/3/2020 12:32:50 PM	R69388
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/3/2020 12:32:50 PM	R69388
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/3/2020 12:32:50 PM	R69388
Surr: Toluene-d8	101	70-130		%Rec	1	6/3/2020 12:32:50 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2@1'

Project: Peterson Booster

Collection Date: 6/1/2020 9:05:00 AM

Lab ID: 2006128-003

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	210	60		mg/Kg	20	6/3/2020 4:30:30 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 1:01:29 PM	G69388
Surr: BFB	99.3	70-130		%Rec	1	6/3/2020 1:01:29 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/3/2020 5:07:44 PM	52854
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/3/2020 5:07:44 PM	52854
Surr: DNOP	89.4	55.1-146		%Rec	1	6/3/2020 5:07:44 PM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/3/2020 1:01:29 PM	R69388
Toluene	ND	0.049		mg/Kg	1	6/3/2020 1:01:29 PM	R69388
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2020 1:01:29 PM	R69388
Xylenes, Total	ND	0.097		mg/Kg	1	6/3/2020 1:01:29 PM	R69388
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	6/3/2020 1:01:29 PM	R69388
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/3/2020 1:01:29 PM	R69388
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/3/2020 1:01:29 PM	R69388
Surr: Toluene-d8	95.7	70-130		%Rec	1	6/3/2020 1:01:29 PM	R69388

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

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

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



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 9:10:00 AM

Lab ID: 2006128-004

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	7000	300		mg/Kg	100	6/4/2020 8:28:21 AM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/3/2020 1:30:03 PM	G69388
Surr: BFB	98.8	70-130		%Rec	1	6/3/2020 1:30:03 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/3/2020 5:32:46 PM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/3/2020 5:32:46 PM	52854
Surr: DNOP	89.8	55.1-146		%Rec	1	6/3/2020 5:32:46 PM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	6/3/2020 1:30:03 PM	R69388
Toluene	ND	0.042		mg/Kg	1	6/3/2020 1:30:03 PM	R69388
Ethylbenzene	ND	0.042		mg/Kg	1	6/3/2020 1:30:03 PM	R69388
Xylenes, Total	ND	0.083		mg/Kg	1	6/3/2020 1:30:03 PM	R69388
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	6/3/2020 1:30:03 PM	R69388
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	6/3/2020 1:30:03 PM	R69388
Surr: Dibromofluoromethane	100	70-130		%Rec	1	6/3/2020 1:30:03 PM	R69388
Surr: Toluene-d8	99.0	70-130		%Rec	1	6/3/2020 1:30:03 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-2@2'R

Project: Peterson Booster

Collection Date: 6/1/2020 9:15:00 AM

Lab ID: 2006128-005

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	150	61		mg/Kg	20	6/3/2020 4:55:11 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/3/2020 1:58:42 PM	G69388
Surr: BFB	103	70-130		%Rec	1	6/3/2020 1:58:42 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2020 5:58:01 PM	52854
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2020 5:58:01 PM	52854
Surr: DNOP	91.2	55.1-146		%Rec	1	6/3/2020 5:58:01 PM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/3/2020 1:58:42 PM	R69388
Toluene	ND	0.050		mg/Kg	1	6/3/2020 1:58:42 PM	R69388
Ethylbenzene	ND	0.050		mg/Kg	1	6/3/2020 1:58:42 PM	R69388
Xylenes, Total	ND	0.10		mg/Kg	1	6/3/2020 1:58:42 PM	R69388
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/3/2020 1:58:42 PM	R69388
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	6/3/2020 1:58:42 PM	R69388
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/3/2020 1:58:42 PM	R69388
Surr: Toluene-d8	98.5	70-130		%Rec	1	6/3/2020 1:58:42 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 9:20:00 AM

Lab ID: 2006128-006

Matrix: MEOH (SOIL) Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9300	600		mg/Kg	200	6/4/2020 8:40:45 AM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	6/3/2020 2:27:17 PM	G69388
Surr: BFB	101	70-130		%Rec	1	6/3/2020 2:27:17 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	46	9.6		mg/Kg	1	6/3/2020 6:23:11 PM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2020 6:23:11 PM	52854
Surr: DNOP	86.6	55.1-146		%Rec	1	6/3/2020 6:23:11 PM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	6/3/2020 2:27:17 PM	R69388
Toluene	ND	0.040		mg/Kg	1	6/3/2020 2:27:17 PM	R69388
Ethylbenzene	ND	0.040		mg/Kg	1	6/3/2020 2:27:17 PM	R69388
Xylenes, Total	ND	0.081		mg/Kg	1	6/3/2020 2:27:17 PM	R69388
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	6/3/2020 2:27:17 PM	R69388
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	6/3/2020 2:27:17 PM	R69388
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/3/2020 2:27:17 PM	R69388
Surr: Toluene-d8	102	70-130		%Rec	1	6/3/2020 2:27:17 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3@1'

Project: Peterson Booster

Collection Date: 6/1/2020 9:21:00 AM

Lab ID: 2006128-007

Matrix: MEOH (SOIL) Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	72	60		mg/Kg	20	6/3/2020 5:19:52 PM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2020 2:55:48 PM	G69388
Surr: BFB	104	70-130		%Rec	1	6/3/2020 2:55:48 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/3/2020 6:48:14 PM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2020 6:48:14 PM	52854
Surr: DNOP	77.9	55.1-146		%Rec	1	6/3/2020 6:48:14 PM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 2:55:48 PM	R69388
Toluene	ND	0.046		mg/Kg	1	6/3/2020 2:55:48 PM	R69388
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2020 2:55:48 PM	R69388
Xylenes, Total	ND	0.093		mg/Kg	1	6/3/2020 2:55:48 PM	R69388
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	6/3/2020 2:55:48 PM	R69388
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	6/3/2020 2:55:48 PM	R69388
Surr: Dibromofluoromethane	96.6	70-130		%Rec	1	6/3/2020 2:55:48 PM	R69388
Surr: Toluene-d8	105	70-130		%Rec	1	6/3/2020 2:55:48 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3@2'

Project: Peterson Booster

Collection Date: 6/1/2020 9:22:00 AM

Lab ID: 2006128-008

Matrix: MEOH (SOIL) Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	200	59		mg/Kg	20	6/3/2020 5:56:55 PM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/3/2020 3:24:19 PM	G69388
Surr: BFB	98.5	70-130		%Rec	1	6/3/2020 3:24:19 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/3/2020 7:13:09 PM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/3/2020 7:13:09 PM	52854
Surr: DNOP	62.9	55.1-146		%Rec	1	6/3/2020 7:13:09 PM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 3:24:19 PM	R69388
Toluene	ND	0.045		mg/Kg	1	6/3/2020 3:24:19 PM	R69388
Ethylbenzene	ND	0.045		mg/Kg	1	6/3/2020 3:24:19 PM	R69388
Xylenes, Total	ND	0.090		mg/Kg	1	6/3/2020 3:24:19 PM	R69388
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	6/3/2020 3:24:19 PM	R69388
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	6/3/2020 3:24:19 PM	R69388
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/3/2020 3:24:19 PM	R69388
Surr: Toluene-d8	97.0	70-130		%Rec	1	6/3/2020 3:24:19 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-3@2.5'R

Project: Peterson Booster

Collection Date: 6/1/2020 9:23:00 AM

Lab ID: 2006128-009

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	330	60		mg/Kg	20	6/3/2020 6:09:16 PM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	6/3/2020 3:52:51 PM	G69388
Surr: BFB	92.4	70-130		%Rec	1	6/3/2020 3:52:51 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/4/2020 9:00:50 AM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 9:00:50 AM	52854
Surr: DNOP	66.1	55.1-146		%Rec	1	6/4/2020 9:00:50 AM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	6/3/2020 3:52:51 PM	R69388
Toluene	ND	0.043		mg/Kg	1	6/3/2020 3:52:51 PM	R69388
Ethylbenzene	ND	0.043		mg/Kg	1	6/3/2020 3:52:51 PM	R69388
Xylenes, Total	ND	0.086		mg/Kg	1	6/3/2020 3:52:51 PM	R69388
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	6/3/2020 3:52:51 PM	R69388
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/3/2020 3:52:51 PM	R69388
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	6/3/2020 3:52:51 PM	R69388
Surr: Toluene-d8	94.0	70-130		%Rec	1	6/3/2020 3:52:51 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 10:00:00 AM

Lab ID: 2006128-010

Matrix: MEOH (SOIL) Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	11000	600		mg/Kg	200	6/4/2020 8:53:10 AM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/3/2020 4:21:26 PM	G69388
Surr: BFB	102	70-130		%Rec	1	6/3/2020 4:21:26 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	600	45		mg/Kg	5	6/4/2020 9:25:00 AM	52854
Motor Oil Range Organics (MRO)	330	230		mg/Kg	5	6/4/2020 9:25:00 AM	52854
Surr: DNOP	78.2	55.1-146		%Rec	5	6/4/2020 9:25:00 AM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	6/3/2020 4:21:26 PM	R69388
Toluene	ND	0.045		mg/Kg	1	6/3/2020 4:21:26 PM	R69388
Ethylbenzene	ND	0.045		mg/Kg	1	6/3/2020 4:21:26 PM	R69388
Xylenes, Total	ND	0.089		mg/Kg	1	6/3/2020 4:21:26 PM	R69388
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%Rec	1	6/3/2020 4:21:26 PM	R69388
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	6/3/2020 4:21:26 PM	R69388
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	6/3/2020 4:21:26 PM	R69388
Surr: Toluene-d8	96.4	70-130		%Rec	1	6/3/2020 4:21:26 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@1'

Project: Peterson Booster

Collection Date: 6/1/2020 10:01:00 AM

Lab ID: 2006128-011

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	710	60		mg/Kg	20	6/3/2020 6:33:58 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2020 4:49:58 PM	G69388
Surr: BFB	100	70-130		%Rec	1	6/3/2020 4:49:58 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/4/2020 9:49:13 AM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 9:49:13 AM	52854
Surr: DNOP	64.1	55.1-146		%Rec	1	6/4/2020 9:49:13 AM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 4:49:58 PM	R69388
Toluene	ND	0.046		mg/Kg	1	6/3/2020 4:49:58 PM	R69388
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2020 4:49:58 PM	R69388
Xylenes, Total	ND	0.093		mg/Kg	1	6/3/2020 4:49:58 PM	R69388
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%Rec	1	6/3/2020 4:49:58 PM	R69388
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	6/3/2020 4:49:58 PM	R69388
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/3/2020 4:49:58 PM	R69388
Surr: Toluene-d8	95.3	70-130		%Rec	1	6/3/2020 4:49:58 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@2'

Project: Peterson Booster

Collection Date: 6/1/2020 10:02:00 AM

Lab ID: 2006128-012

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	210	60		mg/Kg	20	6/3/2020 6:46:19 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2020 5:18:29 PM	G69388
Surr: BFB	97.6	70-130		%Rec	1	6/3/2020 5:18:29 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	22	9.7		mg/Kg	1	6/4/2020 10:13:32 AM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 10:13:32 AM	52854
Surr: DNOP	57.2	55.1-146		%Rec	1	6/4/2020 10:13:32 AM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 5:18:29 PM	R69388
Toluene	ND	0.046		mg/Kg	1	6/3/2020 5:18:29 PM	R69388
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2020 5:18:29 PM	R69388
Xylenes, Total	ND	0.093		mg/Kg	1	6/3/2020 5:18:29 PM	R69388
Surr: 1,2-Dichloroethane-d4	88.7	70-130		%Rec	1	6/3/2020 5:18:29 PM	R69388
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	6/3/2020 5:18:29 PM	R69388
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	6/3/2020 5:18:29 PM	R69388
Surr: Toluene-d8	95.8	70-130		%Rec	1	6/3/2020 5:18:29 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@3'

Project: Peterson Booster

Collection Date: 6/1/2020 10:03:00 AM

Lab ID: 2006128-013

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	540	60		mg/Kg	20	6/3/2020 6:58:42 PM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/3/2020 5:47:05 PM	G69388
Surr: BFB	103	70-130		%Rec	1	6/3/2020 5:47:05 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/4/2020 10:37:51 AM	52854
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/4/2020 10:37:51 AM	52854
Surr: DNOP	60.6	55.1-146		%Rec	1	6/4/2020 10:37:51 AM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 5:47:05 PM	R69388
Toluene	ND	0.045		mg/Kg	1	6/3/2020 5:47:05 PM	R69388
Ethylbenzene	ND	0.045		mg/Kg	1	6/3/2020 5:47:05 PM	R69388
Xylenes, Total	ND	0.090		mg/Kg	1	6/3/2020 5:47:05 PM	R69388
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	1	6/3/2020 5:47:05 PM	R69388
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	6/3/2020 5:47:05 PM	R69388
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/3/2020 5:47:05 PM	R69388
Surr: Toluene-d8	103	70-130		%Rec	1	6/3/2020 5:47:05 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-4@3.5'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:04:00 AM

Lab ID: 2006128-014

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	720	60		mg/Kg	20	6/3/2020 7:11:03 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2020 6:15:39 PM	G69388
Surr: BFB	97.7	70-130		%Rec	1	6/3/2020 6:15:39 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	32	9.6		mg/Kg	1	6/4/2020 11:02:18 AM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 11:02:18 AM	52854
Surr: DNOP	67.1	55.1-146		%Rec	1	6/4/2020 11:02:18 AM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/3/2020 6:15:39 PM	R69388
Toluene	ND	0.046		mg/Kg	1	6/3/2020 6:15:39 PM	R69388
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2020 6:15:39 PM	R69388
Xylenes, Total	ND	0.091		mg/Kg	1	6/3/2020 6:15:39 PM	R69388
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%Rec	1	6/3/2020 6:15:39 PM	R69388
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	6/3/2020 6:15:39 PM	R69388
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/3/2020 6:15:39 PM	R69388
Surr: Toluene-d8	95.2	70-130		%Rec	1	6/3/2020 6:15:39 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5@0-0.5'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:15:00 AM

Lab ID: 2006128-015

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	13000	590		mg/Kg	200	6/4/2020 9:05:34 AM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/3/2020 6:44:12 PM	G69388
Surr: BFB	93.5	70-130		%Rec	1	6/3/2020 6:44:12 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/4/2020 11:26:45 AM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 11:26:45 AM	52854
Surr: DNOP	67.7	55.1-146		%Rec	1	6/4/2020 11:26:45 AM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	6/3/2020 6:44:12 PM	R69388
Toluene	ND	0.045		mg/Kg	1	6/3/2020 6:44:12 PM	R69388
Ethylbenzene	ND	0.045		mg/Kg	1	6/3/2020 6:44:12 PM	R69388
Xylenes, Total	ND	0.089		mg/Kg	1	6/3/2020 6:44:12 PM	R69388
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	6/3/2020 6:44:12 PM	R69388
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	6/3/2020 6:44:12 PM	R69388
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	6/3/2020 6:44:12 PM	R69388
Surr: Toluene-d8	97.1	70-130		%Rec	1	6/3/2020 6:44:12 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-5@1'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:16:00 AM

Lab ID: 2006128-016

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	9500	300		mg/Kg	100	6/4/2020 9:17:59 AM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2020 7:12:42 PM	G69388
Surr: BFB	103	70-130		%Rec	1	6/3/2020 7:12:42 PM	G69388
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/4/2020 11:51:12 AM	52854
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 11:51:12 AM	52854
Surr: DNOP	75.1	55.1-146		%Rec	1	6/4/2020 11:51:12 AM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/3/2020 7:12:42 PM	R69388
Toluene	ND	0.049		mg/Kg	1	6/3/2020 7:12:42 PM	R69388
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2020 7:12:42 PM	R69388
Xylenes, Total	ND	0.098		mg/Kg	1	6/3/2020 7:12:42 PM	R69388
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	6/3/2020 7:12:42 PM	R69388
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	6/3/2020 7:12:42 PM	R69388
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/3/2020 7:12:42 PM	R69388
Surr: Toluene-d8	97.6	70-130		%Rec	1	6/3/2020 7:12:42 PM	R69388

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

## Qualifiers:

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

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

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Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 10:20:00 AM

Lab ID: 2006128-017

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	9100	600		mg/Kg	200	6/4/2020 9:30:24 AM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg	1	6/3/2020 7:41:13 PM	G69388
Surr: BFB	99.3	70-130		%Rec	1	6/3/2020 7:41:13 PM	G69388
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/4/2020 12:15:42 PM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 12:15:42 PM	52854
Surr: DNOP	80.4	55.1-146		%Rec	1	6/4/2020 12:15:42 PM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.031		mg/Kg	1	6/3/2020 7:41:13 PM	R69388
Toluene	ND	0.061		mg/Kg	1	6/3/2020 7:41:13 PM	R69388
Ethylbenzene	ND	0.061		mg/Kg	1	6/3/2020 7:41:13 PM	R69388
Xylenes, Total	ND	0.12		mg/Kg	1	6/3/2020 7:41:13 PM	R69388
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	6/3/2020 7:41:13 PM	R69388
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	6/3/2020 7:41:13 PM	R69388
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/3/2020 7:41:13 PM	R69388
Surr: Toluene-d8	97.0	70-130		%Rec	1	6/3/2020 7:41:13 PM	R69388

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@1'

Project: Peterson Booster

Collection Date: 6/1/2020 10:21:00 AM

Lab ID: 2006128-018

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	190	60		mg/Kg	20	6/3/2020 8:25:08 PM	52863
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/4/2020 12:55:18 AM	G69389
Surr: BFB	97.1	70-130		%Rec	1	6/4/2020 12:55:18 AM	G69389
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/4/2020 11:44:39 AM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 11:44:39 AM	52854
Surr: DNOP	73.7	55.1-146		%Rec	1	6/4/2020 11:44:39 AM	52854
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	6/4/2020 12:55:18 AM	R69389
Toluene	ND	0.046		mg/Kg	1	6/4/2020 12:55:18 AM	R69389
Ethylbenzene	ND	0.046		mg/Kg	1	6/4/2020 12:55:18 AM	R69389
Xylenes, Total	ND	0.093		mg/Kg	1	6/4/2020 12:55:18 AM	R69389
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	6/4/2020 12:55:18 AM	R69389
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	6/4/2020 12:55:18 AM	R69389
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/4/2020 12:55:18 AM	R69389
Surr: Toluene-d8	96.2	70-130		%Rec	1	6/4/2020 12:55:18 AM	R69389

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@2'

Project: Peterson Booster

Collection Date: 6/1/2020 10:22:00 AM

Lab ID: 2006128-019

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/3/2020 8:37:29 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	6/4/2020 1:23:43 AM	G69389
Surr: BFB	99.8	70-130		%Rec	1	6/4/2020 1:23:43 AM	G69389
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/4/2020 12:09:03 PM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 12:09:03 PM	52854
Surr: DNOP	66.8	55.1-146		%Rec	1	6/4/2020 12:09:03 PM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 1:23:43 AM	R69389
Toluene	ND	0.051		mg/Kg	1	6/4/2020 1:23:43 AM	R69389
Ethylbenzene	ND	0.051		mg/Kg	1	6/4/2020 1:23:43 AM	R69389
Xylenes, Total	ND	0.10		mg/Kg	1	6/4/2020 1:23:43 AM	R69389
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	6/4/2020 1:23:43 AM	R69389
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	6/4/2020 1:23:43 AM	R69389
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	6/4/2020 1:23:43 AM	R69389
Surr: Toluene-d8	104	70-130		%Rec	1	6/4/2020 1:23:43 AM	R69389

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-6@2.5'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:23:00 AM

Lab ID: 2006128-020

Matrix: MEOH (SOIL) Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	100	60		mg/Kg	20	6/3/2020 8:49:50 PM	52863
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	6/4/2020 1:52:13 AM	G69389
Surr: BFB	102	70-130		%Rec	1	6/4/2020 1:52:13 AM	G69389
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/4/2020 12:33:43 PM	52854
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 12:33:43 PM	52854
Surr: DNOP	69.8	55.1-146		%Rec	1	6/4/2020 12:33:43 PM	52854
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.027		mg/Kg	1	6/4/2020 1:52:13 AM	R69389
Toluene	ND	0.054		mg/Kg	1	6/4/2020 1:52:13 AM	R69389
Ethylbenzene	ND	0.054		mg/Kg	1	6/4/2020 1:52:13 AM	R69389
Xylenes, Total	ND	0.11		mg/Kg	1	6/4/2020 1:52:13 AM	R69389
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	6/4/2020 1:52:13 AM	R69389
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	6/4/2020 1:52:13 AM	R69389
Surr: Dibromofluoromethane	104	70-130		%Rec	1	6/4/2020 1:52:13 AM	R69389
Surr: Toluene-d8	99.5	70-130		%Rec	1	6/4/2020 1:52:13 AM	R69389

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 10:30:00 AM

Lab ID: 2006128-021

Matrix: MEOH (SOIL)

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/4/2020 9:59:51 AM	52870
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	6/4/2020 2:20:45 AM	G69389
Surr: BFB	98.5	70-130		%Rec	1	6/4/2020 2:20:45 AM	G69389
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/4/2020 12:58:10 PM	52855
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 12:58:10 PM	52855
Surr: DNOP	68.7	55.1-146		%Rec	1	6/4/2020 12:58:10 PM	52855
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 2:20:45 AM	R69389
Toluene	ND	0.051		mg/Kg	1	6/4/2020 2:20:45 AM	R69389
Ethylbenzene	ND	0.051		mg/Kg	1	6/4/2020 2:20:45 AM	R69389
Xylenes, Total	ND	0.10		mg/Kg	1	6/4/2020 2:20:45 AM	R69389
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	6/4/2020 2:20:45 AM	R69389
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/4/2020 2:20:45 AM	R69389
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/4/2020 2:20:45 AM	R69389
Surr: Toluene-d8	95.2	70-130		%Rec	1	6/4/2020 2:20:45 AM	R69389

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-7@1'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:31:00 AM

Lab ID: 2006128-022

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/4/2020 10:36:54 AM	52870
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/4/2020 3:46:05 AM	G69389
Surr: BFB	99.8	70-130		%Rec	1	6/4/2020 3:46:05 AM	G69389
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/4/2020 1:23:01 PM	52855
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/4/2020 1:23:01 PM	52855
Surr: DNOP	70.9	55.1-146		%Rec	1	6/4/2020 1:23:01 PM	52855
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	6/4/2020 3:46:05 AM	R69389
Toluene	ND	0.047		mg/Kg	1	6/4/2020 3:46:05 AM	R69389
Ethylbenzene	ND	0.047		mg/Kg	1	6/4/2020 3:46:05 AM	R69389
Xylenes, Total	ND	0.094		mg/Kg	1	6/4/2020 3:46:05 AM	R69389
Surr: 1,2-Dichloroethane-d4	96.7	70-130		%Rec	1	6/4/2020 3:46:05 AM	R69389
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	6/4/2020 3:46:05 AM	R69389
Surr: Dibromofluoromethane	99.8	70-130		%Rec	1	6/4/2020 3:46:05 AM	R69389
Surr: Toluene-d8	95.2	70-130		%Rec	1	6/4/2020 3:46:05 AM	R69389

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 10:35:00 AM

Lab ID: 2006128-023

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	9000	600		mg/Kg	200	6/4/2020 12:24:09 PM	52870
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/4/2020 10:36:07 AM	52869
Surr: BFB	103	70-130		%Rec	5	6/4/2020 10:36:07 AM	52869
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/4/2020 3:58:28 PM	52857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 3:58:28 PM	52857
Surr: DNOP	80.3	55.1-146		%Rec	1	6/4/2020 3:58:28 PM	52857
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	6/4/2020 10:36:07 AM	52869
Toluene	ND	0.24		mg/Kg	5	6/4/2020 10:36:07 AM	52869
Ethylbenzene	ND	0.24		mg/Kg	5	6/4/2020 10:36:07 AM	52869
Xylenes, Total	ND	0.47		mg/Kg	5	6/4/2020 10:36:07 AM	52869
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%Rec	5	6/4/2020 10:36:07 AM	52869
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	5	6/4/2020 10:36:07 AM	52869
Surr: Dibromofluoromethane	93.9	70-130		%Rec	5	6/4/2020 10:36:07 AM	52869
Surr: Toluene-d8	98.8	70-130		%Rec	5	6/4/2020 10:36:07 AM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-8@.75'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:36:00 AM

Lab ID: 2006128-024

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	8400	300		mg/Kg	100	6/4/2020 1:01:23 PM	52870
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/4/2020 11:05:34 AM	52869
Surr: BFB	99.4	70-130		%Rec	1	6/4/2020 11:05:34 AM	52869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/4/2020 4:23:20 PM	52857
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 4:23:20 PM	52857
Surr: DNOP	85.5	55.1-146		%Rec	1	6/4/2020 4:23:20 PM	52857
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 11:05:34 AM	52869
Toluene	ND	0.049		mg/Kg	1	6/4/2020 11:05:34 AM	52869
Ethylbenzene	ND	0.049		mg/Kg	1	6/4/2020 11:05:34 AM	52869
Xylenes, Total	ND	0.098		mg/Kg	1	6/4/2020 11:05:34 AM	52869
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	6/4/2020 11:05:34 AM	52869
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	6/4/2020 11:05:34 AM	52869
Surr: Dibromofluoromethane	92.5	70-130		%Rec	1	6/4/2020 11:05:34 AM	52869
Surr: Toluene-d8	103	70-130		%Rec	1	6/4/2020 11:05:34 AM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9@0'

Project: Peterson Booster

Collection Date: 6/1/2020 10:40:00 AM

Lab ID: 2006128-025

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	10000	600		mg/Kg	200	6/4/2020 1:13:48 PM	52870
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/4/2020 11:34:55 AM	52869
Surr: BFB	104	70-130		%Rec	5	6/4/2020 11:34:55 AM	52869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/4/2020 12:24:47 PM	52857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 12:24:47 PM	52857
Surr: DNOP	96.7	55.1-146		%Rec	1	6/4/2020 12:24:47 PM	52857
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	6/4/2020 11:34:55 AM	52869
Toluene	ND	0.25		mg/Kg	5	6/4/2020 11:34:55 AM	52869
Ethylbenzene	ND	0.25		mg/Kg	5	6/4/2020 11:34:55 AM	52869
Xylenes, Total	ND	0.49		mg/Kg	5	6/4/2020 11:34:55 AM	52869
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	5	6/4/2020 11:34:55 AM	52869
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	5	6/4/2020 11:34:55 AM	52869
Surr: Dibromofluoromethane	95.7	70-130		%Rec	5	6/4/2020 11:34:55 AM	52869
Surr: Toluene-d8	105	70-130		%Rec	5	6/4/2020 11:34:55 AM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-9@.05'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:41:00 AM

Lab ID: 2006128-026

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	15000	600		mg/Kg	200	6/4/2020 1:26:13 PM	52870
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/4/2020 12:04:16 PM	52869
Surr: BFB	103	70-130		%Rec	5	6/4/2020 12:04:16 PM	52869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/4/2020 12:49:14 PM	52857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 12:49:14 PM	52857
Surr: DNOP	105	55.1-146		%Rec	1	6/4/2020 12:49:14 PM	52857
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	6/4/2020 12:04:16 PM	52869
Toluene	ND	0.25		mg/Kg	5	6/4/2020 12:04:16 PM	52869
Ethylbenzene	ND	0.25		mg/Kg	5	6/4/2020 12:04:16 PM	52869
Xylenes, Total	ND	0.49		mg/Kg	5	6/4/2020 12:04:16 PM	52869
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	5	6/4/2020 12:04:16 PM	52869
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	5	6/4/2020 12:04:16 PM	52869
Surr: Dibromofluoromethane	92.7	70-130		%Rec	5	6/4/2020 12:04:16 PM	52869
Surr: Toluene-d8	103	70-130		%Rec	5	6/4/2020 12:04:16 PM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



# Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-10@0-.5'

Project: Peterson Booster

Collection Date: 6/1/2020 10:50:00 AM

Lab ID: 2006128-027

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	9300	600		mg/Kg	200	6/4/2020 1:38:37 PM	52870
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/4/2020 12:33:47 PM	52869
Surr: BFB	99.2	70-130		%Rec	1	6/4/2020 12:33:47 PM	52869
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/4/2020 1:13:34 PM	52857
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/4/2020 1:13:34 PM	52857
Surr: DNOP	115	55.1-146		%Rec	1	6/4/2020 1:13:34 PM	52857
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 12:33:47 PM	52869
Toluene	ND	0.049		mg/Kg	1	6/4/2020 12:33:47 PM	52869
Ethylbenzene	ND	0.049		mg/Kg	1	6/4/2020 12:33:47 PM	52869
Xylenes, Total	ND	0.099		mg/Kg	1	6/4/2020 12:33:47 PM	52869
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	6/4/2020 12:33:47 PM	52869
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	6/4/2020 12:33:47 PM	52869
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	6/4/2020 12:33:47 PM	52869
Surr: Toluene-d8	104	70-130		%Rec	1	6/4/2020 12:33:47 PM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-10@1'R

Project: Peterson Booster

Collection Date: 6/1/2020 10:51:00 AM

Lab ID: 2006128-028

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/4/2020 12:15:42 PM	52870
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/4/2020 1:03:20 PM	52869
Surr: BFB	97.5	70-130		%Rec	1	6/4/2020 1:03:20 PM	52869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/4/2020 1:37:52 PM	52857
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/4/2020 1:37:52 PM	52857
Surr: DNOP	90.0	55.1-146		%Rec	1	6/4/2020 1:37:52 PM	52857
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 1:03:20 PM	52869
Toluene	ND	0.049		mg/Kg	1	6/4/2020 1:03:20 PM	52869
Ethylbenzene	ND	0.049		mg/Kg	1	6/4/2020 1:03:20 PM	52869
Xylenes, Total	ND	0.098		mg/Kg	1	6/4/2020 1:03:20 PM	52869
Surr: 1,2-Dichloroethane-d4	97.8	70-130		%Rec	1	6/4/2020 1:03:20 PM	52869
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/4/2020 1:03:20 PM	52869
Surr: Dibromofluoromethane	92.4	70-130		%Rec	1	6/4/2020 1:03:20 PM	52869
Surr: Toluene-d8	103	70-130		%Rec	1	6/4/2020 1:03:20 PM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11@0-.5'

Project: Peterson Booster

Collection Date: 6/1/2020 11:00:00 AM

Lab ID: 2006128-029

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/4/2020 12:28:03 PM	52870
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/4/2020 1:32:46 PM	52869
Surr: BFB	97.8	70-130		%Rec	1	6/4/2020 1:32:46 PM	52869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/4/2020 2:01:58 PM	52857
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 2:01:58 PM	52857
Surr: DNOP	98.2	55.1-146		%Rec	1	6/4/2020 2:01:58 PM	52857
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 1:32:46 PM	52869
Toluene	ND	0.050		mg/Kg	1	6/4/2020 1:32:46 PM	52869
Ethylbenzene	ND	0.050		mg/Kg	1	6/4/2020 1:32:46 PM	52869
Xylenes, Total	ND	0.10		mg/Kg	1	6/4/2020 1:32:46 PM	52869
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%Rec	1	6/4/2020 1:32:46 PM	52869
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/4/2020 1:32:46 PM	52869
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	6/4/2020 1:32:46 PM	52869
Surr: Toluene-d8	101	70-130		%Rec	1	6/4/2020 1:32:46 PM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: S-11@1'R

Project: Peterson Booster

Collection Date: 6/1/2020 11:05:00 AM

Lab ID: 2006128-030

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	6/4/2020 12:40:23 PM	52870
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/4/2020 2:02:14 PM	52869
Surr: BFB	99.0	70-130		%Rec	1	6/4/2020 2:02:14 PM	52869
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/4/2020 2:26:15 PM	52857
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 2:26:15 PM	52857
Surr: DNOP	95.0	55.1-146		%Rec	1	6/4/2020 2:26:15 PM	52857
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 2:02:14 PM	52869
Toluene	ND	0.050		mg/Kg	1	6/4/2020 2:02:14 PM	52869
Ethylbenzene	ND	0.050		mg/Kg	1	6/4/2020 2:02:14 PM	52869
Xylenes, Total	ND	0.099		mg/Kg	1	6/4/2020 2:02:14 PM	52869
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	6/4/2020 2:02:14 PM	52869
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/4/2020 2:02:14 PM	52869
Surr: Dibromofluoromethane	92.3	70-130		%Rec	1	6/4/2020 2:02:14 PM	52869
Surr: Toluene-d8	106	70-130		%Rec	1	6/4/2020 2:02:14 PM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2006128

Date Reported: 6/8/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Talon Artesia

Client Sample ID: BG-1@0-0.5'

Project: Peterson Booster

Collection Date: 6/1/2020 11:10:00 AM

Lab ID: 2006128-031

Matrix: SOIL

Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/4/2020 10:32:28 AM	52873
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/4/2020 2:34:03 PM	52869
Surr: BFB	105	70-130		%Rec	1	6/4/2020 2:34:03 PM	52869
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/4/2020 2:50:26 PM	52857
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/4/2020 2:50:26 PM	52857
Surr: DNOP	95.2	55.1-146		%Rec	1	6/4/2020 2:50:26 PM	52857
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/4/2020 2:34:03 PM	52869
Toluene	ND	0.050		mg/Kg	1	6/4/2020 2:34:03 PM	52869
Ethylbenzene	ND	0.050		mg/Kg	1	6/4/2020 2:34:03 PM	52869
Xylenes, Total	ND	0.10		mg/Kg	1	6/4/2020 2:34:03 PM	52869
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	1	6/4/2020 2:34:03 PM	52869
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	6/4/2020 2:34:03 PM	52869
Surr: Dibromofluoromethane	93.0	70-130		%Rec	1	6/4/2020 2:34:03 PM	52869
Surr: Toluene-d8	109	70-130		%Rec	1	6/4/2020 2:34:03 PM	52869

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

**Client:** Talon Artesia  
**Project:** Peterson Booster

Sample ID: <b>MB-52870</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52870</b>	RunNo: <b>69354</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406593</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-52870</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52870</b>	RunNo: <b>69354</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406594</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID: <b>MB-52863</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52863</b>	RunNo: <b>69354</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/3/2020</b>	SeqNo: <b>2406658</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-52863</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52863</b>	RunNo: <b>69354</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/3/2020</b>	SeqNo: <b>2406659</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Sample ID: <b>MB-52873</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52873</b>	RunNo: <b>69412</b>								
Prep Date: <b>6/4/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2407918</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-52873</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52873</b>	RunNo: <b>69412</b>								
Prep Date: <b>6/4/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2407919</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix |   |

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

Client: Talon Artesia  
Project: Peterson Booster

Sample ID: MB-52854	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52854	RunNo: 69343								
Prep Date: 6/3/2020	Analysis Date: 6/3/2020	SeqNo: 2405535 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.5	55.1	146			

Sample ID: LCS-52854	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52854	RunNo: 69343								
Prep Date: 6/3/2020	Analysis Date: 6/3/2020	SeqNo: 2405536 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.2	70	130			
Surr: DNOP	4.0		5.000		79.7	55.1	146			

Sample ID: 2006128-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1@0-0.5'	Batch ID: 52854	RunNo: 69343								
Prep Date: 6/3/2020	Analysis Date: 6/3/2020	SeqNo: 2405754 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	49.07	0	93.4	47.4	136	7.89	43.4	
Surr: DNOP	4.4		4.907		89.8	55.1	146	0	0	

Sample ID: 2006128-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1@0-0.5'	Batch ID: 52854	RunNo: 69343								
Prep Date: 6/3/2020	Analysis Date: 6/3/2020	SeqNo: 2405774 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.1	45.41	0	93.3	47.4	136			
Surr: DNOP	4.0		4.541		88.2	55.1	146			

Sample ID: MB-52855	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52855	RunNo: 69343								
Prep Date: 6/3/2020	Analysis Date: 6/3/2020	SeqNo: 2405806 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		77.9	55.1	146			

## Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	



## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

**Client:** Talon Artesia  
**Project:** Peterson Booster

Sample ID: <b>LCS-52855</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52855</b>	RunNo: <b>69343</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/3/2020</b>	SeqNo: <b>2405819</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.3	70	130			
Surr: DNOP	3.5		5.000		69.2	55.1	146			

Sample ID: <b>MB-52857</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52857</b>	RunNo: <b>69378</b>								
Prep Date: <b>6/4/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406077</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	55.1	146			

Sample ID: <b>LCS-52857</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52857</b>	RunNo: <b>69378</b>								
Prep Date: <b>6/4/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406380</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	70	130			
Surr: DNOP	5.1		5.000		102	55.1	146			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix |   |

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

Client: Talon Artesia  
Project: Peterson Booster

Sample ID: 2006128-002a ms	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-1@1'	Batch ID: R69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406407 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.020	0.8058	0	111	70	130			
Toluene	0.83	0.040	0.8058	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.4029		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.4029		102	70	130			
Surr: Dibromofluoromethane	0.40		0.4029		99.2	70	130			
Surr: Toluene-d8	0.38		0.4029		95.4	70	130			

Sample ID: 2006128-002a msd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-1@1'	Batch ID: R69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406408 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.020	0.8058	0	101	70	130	9.95	20	
Toluene	0.78	0.040	0.8058	0	96.8	70	130	5.71	20	
Surr: 1,2-Dichloroethane-d4	0.39		0.4029		96.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.38		0.4029		93.6	70	130	0	0	
Surr: Dibromofluoromethane	0.37		0.4029		92.7	70	130	0	0	
Surr: Toluene-d8	0.38		0.4029		94.8	70	130	0	0	

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406424 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.4	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406425 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.8	70	130			
Toluene	0.99	0.050	1.000	0	98.7	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

Client: Talon Artesia  
Project: Peterson Booster

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406425 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.1	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130			
Surr: Toluene-d8	0.49		0.5000		98.0	70	130			

Sample ID: 100ng lcs2	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406449 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	0.96	0.050	1.000	0	96.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.9	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.1	70	130			
Surr: Toluene-d8	0.48		0.5000		95.5	70	130			

Sample ID: 2006128-021a ms	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-7@0-0.5'	Batch ID: R69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/4/2020	SeqNo: 2406463 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.014	0	101	70	130			
Toluene	1.1	0.051	1.014	0	107	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5071		92.3	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5071		93.6	70	130			
Surr: Dibromofluoromethane	0.49		0.5071		96.1	70	130			
Surr: Toluene-d8	0.49		0.5071		96.9	70	130			

Sample ID: 2006128-021a msd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-7@0-0.5'	Batch ID: R69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/4/2020	SeqNo: 2406464 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.014	0	94.9	70	130	6.23	20	
Toluene	0.96	0.051	1.014	0	95.0	70	130	11.5	20	
Surr: 1,2-Dichloroethane-d4	0.49		0.5071		96.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.5071		98.1	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.5071		97.8	70	130	0	0	
Surr: Toluene-d8	0.48		0.5071		94.0	70	130	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

Client: Talon Artesia  
Project: Peterson Booster

Sample ID: <b>mb2</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R69389</b>	RunNo: <b>69389</b>								
Prep Date:	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406467</b>	Units: <b>mg/Kg</b>							
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	0.48		0.5000		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.2	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			

Sample ID: <b>LCS-52869</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>52869</b>	RunNo: <b>69395</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406734</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.5	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.2	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.5	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: <b>mb-52869</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52869</b>	RunNo: <b>69395</b>								
Prep Date: <b>6/3/2020</b>	Analysis Date: <b>6/4/2020</b>	SeqNo: <b>2406735</b>	Units: <b>mg/Kg</b>							
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	0.49		0.5000		98.4	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.2	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.6	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

## Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	



## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

Client: Talon Artesia  
Project: Peterson Booster

Sample ID: 2006128-024ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-8@.75'R	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2408246 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9690	0	97.1	71.1	115			
Toluene	1.2	0.048	0.9690	0	121	79.6	132			
Ethylbenzene	1.2	0.048	0.9690	0	126	83.8	134			
Xylenes, Total	3.5	0.097	2.907	0	119	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.47		0.4845		96.5	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.4845		95.2	70	130			
Surr: Dibromofluoromethane	0.44		0.4845		91.8	70	130			
Surr: Toluene-d8	0.51		0.4845		106	70	130			

Sample ID: 2006128-024amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-8@.75'R	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2408247 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9662	0	99.6	71.1	115	2.21	20	
Toluene	1.2	0.048	0.9662	0	120	79.6	132	1.39	20	
Ethylbenzene	1.2	0.048	0.9662	0	123	83.8	134	2.93	20	
Xylenes, Total	3.5	0.097	2.899	0	121	82.4	132	1.37	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4831		96.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4831		92.8	70	130	0	0	
Surr: Dibromofluoromethane	0.44		0.4831		90.6	70	130	0	0	
Surr: Toluene-d8	0.51		0.4831		105	70	130	0	0	

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |
| PQL Practical Quantitative Limit                        | RL Reporting Limit                                |
| S % Recovery outside of range due to dilution or matrix |   |

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

**Client:** Talon Artesia  
**Project:** Peterson Booster

Sample ID: 2.5ug lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: G69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406427 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.9	70	130			
Surr: BFB	500		500.0		99.6	70	130			

Sample ID: 2006128-001a msd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-1@0-0.5'	Batch ID: G69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406429 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.6	17.94	0	84.9	70	130	7.35	20	
Surr: BFB	370		358.7		104	70	130	0	0	

Sample ID: 2006128-001ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-1@0-0.5'	Batch ID: G69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406430 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.6	17.94	0	91.4	70	130			
Surr: BFB	370		358.7		103	70	130			

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: G69388	RunNo: 69388								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406447 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		101	70	130			

Sample ID: 2.5ug gro lcs2	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: G69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/3/2020	SeqNo: 2406470 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.2	70	130			
Surr: BFB	500		500.0		99.2	70	130			

Sample ID: 2006128-022a ms	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-7@1'R	Batch ID: G69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/4/2020	SeqNo: 2406485 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

## Qualifiers:

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

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

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

**Client:** Talon Artesia  
**Project:** Peterson Booster

Sample ID: 2006128-022a ms	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-7@1'R	Batch ID: G69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/4/2020	SeqNo: 2406485 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.7	23.56	0	79.8	70	130			
Surr: BFB	450		471.3		94.9	70	130			

Sample ID: 2006128-022a msd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-7@1'R	Batch ID: G69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/4/2020	SeqNo: 2406486 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.7	23.56	0	82.7	70	130	3.59	20	
Surr: BFB	500		471.3		106	70	130	0	0	

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: G69389	RunNo: 69389								
Prep Date:	Analysis Date: 6/4/2020	SeqNo: 2406488 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		99.6	70	130			

Sample ID: lcs-52869	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2406748 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.3	70	130			
Surr: BFB	490		500.0		98.3	70	130			

Sample ID: mb-52869	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2406749 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		101	70	130			

Sample ID: 2006128-025ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-9@0'	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2408248 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

## Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006128

08-Jun-20

Client: Talon Artesia  
 Project: Peterson Booster

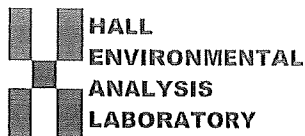
Sample ID: 2006128-025ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-9@0'	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2408248 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	25	24.73	0	96.8	70	130			
Surr: BFB	2400		2473		96.5	70	130			

Sample ID: 2006128-025amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: S-9@0'	Batch ID: 52869	RunNo: 69395								
Prep Date: 6/3/2020	Analysis Date: 6/4/2020	SeqNo: 2408249 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	25	24.88	0	104	70	130	7.77	20	
Surr: BFB	2400		2488		98.2	70	130	0	0	

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit





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 ARTESIA

Work Order Number: 2006128

RcptNo: 1

Received By: Isaiah Ortiz 6/3/2020 9:15:00 AM

Completed By: Desiree Dominguez 6/3/2020 9:23:56 AM

Reviewed By: DAD 6/3/20

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $\leq 2$  or  $>12$  unless noted)

Adjusted?

Checked by: EM 6/3/20

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Not Present			



## Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ AZ Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time: 48 hrs

Standard: Rush

Project Name:

Project #:

Project Manager:

D. Dalkins

Sampler: D. Dalkins

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including oil): 19-6 deg C = 19.5

Container Type and #

Preservative Type

HEAL No.

2006128

Date

Time

Sample Name

Matrix

S-4 @ 3' R

S-4 @ 3.5' R

S-5 @ 0'-0.5' R

S-5 @ 1' R

S-6 @ 0'-0.5' R

S-6 @ 1' R

S-6 @ 2' R

S-4 @ 2.5' R

S-7 @ 0'-0.5' R

S-7 @ 1' R

S-8 @ 0'-0.5' R

S-8 @ 1.5' R

Date

Time

Relinquished by:

Relinquished by:

Date

Time

Via:

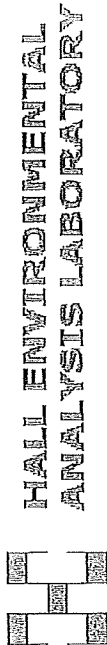
Date

Time

Via:

Date

Time



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Analysis Request

Analysis Request

Analysis Request

Analysis Request

Analysis Request

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Analysis Request

Remarks: Please cc the following via email:

Dadkins@talonlpe.com

Rpons@talonlpe.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

## Chain-of-Custody Record

Client: Talon LPE

408 W Texas St

Mailing Address: Artesia, NM 88210

Phone #:

email or Fax#: (575) 746-8905

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time: 48-72

☒ Standard ☒ Rush

Project Name:

Project #: 101307, 131, 101

Project Manager:

Sampler: D. Dalkowski

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CO<sub>2</sub>): 19-01°C

Date Time Matrix Sample Name

6/10/20 10:40 S-9 @ 0' R

6/10/20 10:41 S-9 @ 0'-5' R

6/10/20 10:51 S-10 @ 0'-5' R

6/10/20 10:51 S-10 @ 1' R

6/10/20 11:00 S-11 @ 0'-15' R

6/10/20 11:05 S-11 @ 1' R

6/10/20 11:10 S-11 @ 0'-05' R

Container Type and #

Type: Jar

Preservative Type: HCL

HEAL No. 2006125

Cooler Temp (including CO<sub>2</sub>): 19-01°C

HEAL No. 2006125

HEAL No. -025

HEAL No. -026

HEAL No. -027

HEAL No. -028

HEAL No. -029

HEAL No. -030

HEAL No. -031

Date: 6/10/20

Time: 11:00

Date: 6/10/20

Time: 19:00

Relinquished by:

Relinquished by:

Received by:

Received by:

Via: 6/10/20 11:00

Via: 6/10/20 09:15

Remarks: Please cc the following via email:

Dadkins@talonpe.com

Rpons@talonpe.com

R = Refusal with hand auger

If necessary, samples submitted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 17, 2020

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PETERSON BOOSTER #1

Enclosed are the results of analyses for samples received by the laboratory on 06/16/20 17:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

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

Received:	06/16/2020	Sampling Date:	06/16/2020
Reported:	06/17/2020	Sampling Type:	Soil
Project Name:	PETERSON BOOSTER #1	Sampling Condition:	Cool & Intact
Project Number:	701307.131.01	Sample Received By:	Jodi Henson
Project Location:	EDDY CO NM		

**Sample ID: LS - 16 2' (H001599-01)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	06/17/2020	ND	416	104	400	3.77		
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	06/17/2020	ND	220	110	200	6.84		
DRO >C10-C28*	<10.0	10.0	06/17/2020	ND	237	118	200	2.94		
EXT DRO >C28-C36	<10.0	10.0	06/17/2020	ND						
<hr/>										
Surrogate: 1-Chlorooctane	124 %	44.3-144								
Surrogate: 1-Chlorooctadecane	136 %	42.2-156								

**Sample ID: LS - 4 2' (H001599-02)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>400</b>	16.0	06/17/2020	ND	416	104	400	3.77		

**Sample ID: LS - 3 2' (H001599-03)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>320</b>	16.0	06/17/2020	ND	416	104	400	3.77		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

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

Received: 06/16/2020  
Reported: 06/17/2020  
Project Name: PETERSON BOOSTER #1  
Project Number: 701307.131.01  
Project Location: EDDY CO NM

Sampling Date: 06/16/2020  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: LS - 5 2' (H001599-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/17/2020	ND	416	104	400	3.77	

**Sample ID: LS - 8 2' (H001599-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/17/2020	ND	416	104	400	3.77	

**Sample ID: LS - 9 2' (H001599-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/17/2020	ND	416	104	400	3.77	

**Sample ID: LS - 2A 2' (H001599-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/17/2020	ND	416	104	400	3.77	

**Sample ID: LS - 10 2' (H001599-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/17/2020	ND	416	104	400	3.77	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/16/2020  
 Reported: 06/17/2020  
 Project Name: PETERSON BOOSTER #1  
 Project Number: 701307.131.01  
 Project Location: EDDY CO NM

Sampling Date: 06/16/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: LS - 11 2' (H001599-09)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/17/2020	ND	432	108	400	3.77		

**Sample ID: LS - 1A 2' (H001599-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/17/2020	ND	432	108	400	3.77	

**Sample ID: LS - 7 2' (H001599-11)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	06/17/2020	ND	432	108	400	3.77		

**Sample ID: LS - 12 2' (H001599-12)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/17/2020	ND	432	108	400	3.77		

**Sample ID: LS - 14 2' (H001599-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/17/2020	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 06/16/2020  
Reported: 06/17/2020  
Project Name: PETERSON BOOSTER #1  
Project Number: 701307.131.01  
Project Location: EDDY CO NM

Sampling Date: 06/16/2020  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: LS - 13 2' (H001599-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/17/2020	ND	432	108	400	3.77	

**Sample ID: E. SW- 3 2' (H001599-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/17/2020	ND	432	108	400	3.77	

**Sample ID: E. SW- 4 1' (H001599-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/17/2020	ND	432	108	400	3.77	

**Sample ID: W. SW- 2 2' (H001599-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/17/2020	ND	432	108	400	3.77	

**Sample ID: W. SW- 3 1' (H001599-18)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/17/2020	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/16/2020  
 Reported: 06/17/2020  
 Project Name: PETERSON BOOSTER #1  
 Project Number: 701307.131.01  
 Project Location: EDDY CO NM

Sampling Date: 06/16/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PS - 8 2' (H001599-19)**

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	06/17/2020	ND	432	108	400	3.77	

**Sample ID: PS - 9 1' (H001599-20)**

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	06/17/2020	ND	432	108	400	3.77	

**Sample ID: PS - 10 1' (H001599-21)**

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	06/17/2020	ND	432	108	400	3.77	

**Sample ID: PS - 6 1' (H001599-22)**

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	06/17/2020	ND	432	108	400	3.77	

**Sample ID: PS - 3 1' (H001599-23)**

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	06/17/2020	ND	432	108	400	3.77	

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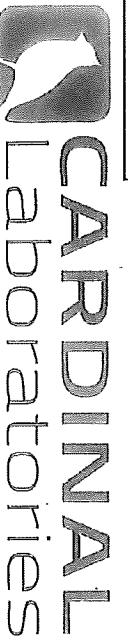
Notes and Definitions

- 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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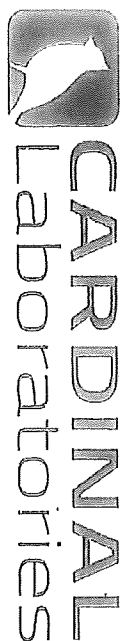


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TAYLOR CP&E		P.O. #: 101 307.131.01	
Project Manager: D. ADKINS		Company: TAYLOR CP&E	
Address: 408 W. TEXAS AVE		Attn: D. ADKINS	
City: ALBUQUERQUE		Address:	
Phone #: 575-746-8168		City:	
Fax #: 575-746-8168		State:	
Project #: 101 307.131.01		Zip:	
Project Owner: PETRASON BEESTER #1		Phone #:	
Project Location: EDDY COUNTY		Fax #:	
Sample Name: MICHAEL COURIER		FOR LAB USE ONLY	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

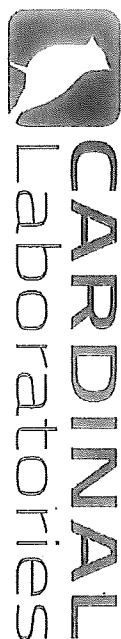
Company Name: TAYLOR COE		P.O. #: 101307.131.01
Project Manager: D. ADKINS		Company: TAYLOR COE
Address: 408 W. TEXAS AVE		Attn: D. ADKINS
City: ALBUQUERQUE	State: NM Zip: 88210	Address:
Phone #: 575-746-8168	Fax #:	City:
Project #: 101307.131.01	Project Owner:	State: Zip:
Project Name: PETERSON BASTIER #1		Phone #:
Project Location: EDDY COUNTY		Fax #:
Sampler Name: MICHAEL COWELL		

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			DATE	TIME	TOTAL CHLOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Relinquished By: <i>M.L. Bell</i>	Date: _____	Received By: <i>Peter Peterson</i>	Date: <i>6-10-20</i>	Time: <i>5:45</i>	Sample Condition: <i>Good</i>	Checked By: <i>Peter Peterson</i>
Delivered By: (Circle One) <i>Peter Peterson</i>	Sampler - UPS - Bus - Other: <i>4.70 #113</i>	Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remarks: <i>PL 20F3</i>		

\* 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

**BIOTIO**

**ANALYSIS REQUEST**

Company Name: <b>TALON CP&amp;E</b>		P.O. #: <b>701 307.131.01</b>	
Project Manager: <b>D. ADKINS</b>		Company: <b>TALON CP&amp;E</b>	
Address: <b>408 W. TEXAS AVE</b>		Attn: <b>D. ADKINS</b>	
City: <b>ARTE SIA</b> State: <b>NM</b> Zip: <b>88210</b>		Address:	
Phone #: <b>575-746-8162</b> Fax #:		City:	
Project #: <b>701 307.131.01</b> Project Owner:		State: Zip:	
Project Name: <b>PETERSON GASTRICK #1</b>		Phone #:	
Project Location: <b>EDDY COUNTY</b>		Fax #:	
Sampler Name: <b>MICHAEL POWELL</b>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	ANALYSIS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
HD01599																
21	PS-10 1'	C	1										6-16-20	1:50	✓	TOTAL CHLORIDES
22	PS-6 1'													2:00		
23	PS-3 1'													2:10		

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Relinquished By: <b>MAJ CELL</b>	Date: _____	Received By: <b>Robert Conner</b>	Date: _____
Relinquished By: _____	Date: _____	Received By: _____	Date: _____
Delivered By: (Circle One) <b>Field</b>	Date: <b>6-16-20</b>	Sample Condition: <b>Good</b>	CHECKED BY: <b>MAJ</b>
Sampler - UPS - Bus - Other: <b>47°C #113</b>		Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Field: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

REMARKS: **RUSH**

Phone Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_  
Fax Result: ☐ Yes ☐ No Add'l Fax #: \_\_\_\_\_

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