



Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

November 9, 2020

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

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

Re: Site Assessment and Closure Report
Sirius 17 Fed #3H Battery
GPS: Latitude 32.6589 Longitude -103.8984
UL "L", Sec. 17, T19S, R31E
Eddy County, NM
NMOCD Ref. Incident No. NRM2019546745

Dear Mr. Amos and Mr. Bratcher,

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for a produced water release that occurred at the Sirius 17 Federal #3H Battery (Sirius). The initial C-141 was submitted on July 6, 2020 (Appendix C). This incident has been assigned Incident ID NRM2019546745 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Sirius is located approximately twenty-five (25) miles northeast of Carlsbad, NM. This spill site is in Unit L, Section 17, Township 19S, Range 31E, Latitude 32.6589, Longitude -103.8984, Eddy County, NM. Figure 4 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Reagan loam, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the Sirius (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 100 feet BGS. The closest waterway and is located approximately 2.33 miles to the southwest of this location. See Appendix A for the referenced Surface Water Map.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix B)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
180'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
<50	600 mg/kg	100 mg/kg	100 mg/kg	50 mg/kg	10mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within 300 feet of any continuously flowing watercourse or any other significant watercourse					x
Within 200 feet of any lakebed, sinkhole or playa lake (measures from the ordinary high-water mark					x
Within 300 feet from an occupied permanent residence, school, hospital, institution or church					x
Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
Within 1000 feet of any freshwater well or spring					x
Within incorporated municipal boundaries or within a defined municipal freshwater well field					x
Within 300 feet of a wetlands					x
Within the area overlying a subsurface mine					x
Within an unstable area (Karst)					x
Within a 100-year floodplain					x

Reference Figure 2 for a TOPO Map.

Release Information

On June 4, 2020, a Victaulic clamp at the mag-meter for the Sirius 17-3 3-phase separator failed. This resulted in a release of 19 barrels (bbls) of produced water. The line was isolated, and repairs were made. A vac truck was dispatched and was able to recover 15 total bbls. This release was contained to the location as demonstrated on the site map, attached in Figure 1.

Site Assessment and Soil Sampling Results

On July 23, 2020, Pima Environmental conducted an initial site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table.

7-6-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 7-6-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
BG-1	0	ND	ND	ND	ND	ND	ND	140
BG-2	0	ND	ND	ND	ND	ND	ND	ND
BG-3	0	ND	ND	ND	ND	ND	ND	120
BG-4	0	ND	ND	ND	ND	ND	ND	250
BG-5	0	ND	ND	ND	14	ND	14	5900
BG-6	0	ND	ND	ND	ND	ND	ND	4500
BG-7	0	ND	ND	ND	ND	ND	ND	120
BG-8	0	ND	ND	ND	ND	ND	ND	120
S-1	0-6"	ND	ND	ND	ND	ND	ND	7600
	1	ND	ND	ND	ND	ND	ND	180
	2	ND	ND	ND	ND	ND	ND	69
	3	ND	ND	ND	ND	ND	ND	300
S-2	0-6"	ND	ND	ND	160	110	270	13000
	1	ND	ND	ND	ND	ND	ND	110
	2	ND	ND	ND	ND	ND	ND	170
	3	ND	ND	ND	ND	ND	ND	69
S-3	0-6"	ND	ND	ND	ND	ND	ND	69
	1	ND	ND	ND	ND	ND	ND	360
	2	ND	ND	ND	ND	ND	ND	300
	3	ND	ND	5	ND	ND	5	5100
S-4	0-6"	ND	ND	ND	ND	ND	ND	17000
	1	ND	ND	ND	ND	ND	ND	570
	2	ND	ND	ND	ND	ND	ND	350
	3	ND	ND	ND	ND	ND	ND	300
S-5	0-6"	ND	ND	ND	140	91	231	18000
	1	ND	ND	ND	ND	ND	ND	880
	2	ND	ND	ND	ND	ND	ND	1700
	3	ND	ND	ND	ND	ND	ND	1000

ND- Analyte Not Detected

On September 30, 2020, Pima returned to the site after receiving rejected water data from the NMOCD to horizontally delineate this spill to the strictest guidelines set by the NMOCD. These samples were field titrated to find the horizontal extents to define more specifically the excavation footprint. The results of our field screens are on the following data table.

9-30-20 Field Screen Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Groundwater <50')				
Sample Date 9-30-20		Field Screening Utilizing PID Meter, Chloride Strips and 5300 Method		
Sample ID	Depth (BGS)	VOC	Benzene	Chlorides
BG-5	0.5			141.8
BG-9	0.5			425.4
S-6	0.5			283.6
S-7	0.5			283.6
S-8	0.5			OFF CHART
	1			OFF CHART
S-9	0.5			283.6
S-13	0.5			141.8
S-14	0.5			425.4
S-15	0.5			283.6
S-16	0.5			283
S-17	0.5			425.8

Remediation Activities

On October 13, 2020, Pima mobilized personnel and equipment to the site to begin the remediation activities for this project. The excavation footprint after we horizontally delineated this site was approximately 120'x120'x1', with the exception of S-3 and S-5. S-3 and S-5 was excavated to depths of 4.0 feet BGS. The area in the vicinity of S-8 and BG-3 was hydro excavated due to production lines and infrastructure. BG-3 was to a depth 0.5-foot BGS, and S-8 to a depth of 1.5-feet BGS. Confirmation composite samples were obtained throughout the excavation and is represented on the following data tables. Additional excavation efforts were taken in sample areas that were above closure criteria and resampled. After laboratory result confirmed the contamination was removed the excavation was backfilled with clean like material, machine compacted and contoured to match the location.

10-13-20 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 10-13-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
N-1 Sidewall	1	ND	ND	ND	ND	ND	ND	80
W-3 Sidewall	1	ND	ND	ND	ND	ND	ND	64
W-4 Sidewall	1	ND	ND	ND	ND	ND	ND	96
NW-1 Bottom	1	ND	ND	ND	ND	ND	ND	80
NW-2 Bottom	1	ND	ND	ND	ND	ND	ND	320
NW-3 Bottom	1	ND	ND	ND	ND	ND	ND	96
NW-4 Bottom	1	ND	ND	ND	ND	ND	ND	304
S-5 Bottom	4	ND	ND	ND	ND	ND	ND	64

ND-Analyte Not Detected

10-14-20 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Sample Date 10-14-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-5 N. Sidewall	4	ND	ND	ND	ND	ND	ND	208
S-5 E. Sidewall	4	ND	ND	ND	ND	ND	ND	896
S-5 W. Sidewall	4	ND	ND	ND	ND	ND	ND	32
S-5 S. Sidewall	4	ND	ND	ND	ND	ND	ND	48

ND-Analyte Not Detected

10-16-20 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')		
Sample Date: 10-16-20		600 mg/kg
Sample ID	Depth (BGS)	Cl mg/kg
HV-Bottom Comp	1.5	336
HV-N. Sidewall Comp	1.5	432
HV-S. Sidewall Comp	1.5	384
HV-E. Sidewall Comp	1.5	592
HV-W. Sidewall Comp	1.5	240
S-3 S. Sidewall Comp	4	80
S-3 N. Sidewall Comp	4	64
S-3 E. Sidewall Comp	4	96
S-3 W. Sidewall Comp	4	64
S-3 Bottom Comp	4	128
NE-1 Bottom	1	208
NE-2 Bottom	1	416
NE-3 Bottom	1	80
N-2 Sidewall	1	80
N-3 Sidewall	1	96
W-1 Sidewall	1	48
W-2 Sidewall	1	48
S-1 Sidewall	1	224
S-2 Sidewall	1	176
S-3 Sidewall	1	32
E-1 Sidewall	1	224
E-2 Sidewall	1	96
E-3 Sidewall	1	144
SW-4 Bottom	1	544
SE-1 Bottom	1	64
SE-2 Bottom	1	880
SE-3 Bottom	1	48
SW-1 Bottom	1	48
SW-2 Bottom	1	48
SW-3 Bottom	1	128

10-22-20 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')		
Sample Date: 10-22-20		600 mg/kg
Sample ID	Depth (BGS)	Cl mg/kg
SE-2 Bottom	1.5	64
S-5 E. Wall	4	656

10-28-20 Laboratory Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')		
Sample Date: 10-28-20		600 mg/kg
Sample ID	Depth (BGS)	Cl mg/kg
S-5 E. Wall	4	320
S-5 E. Bottom Comp	4.5	48

A confirmation sample map is attached in figure 5 to cross reference these samples. The areas were sampled in a grid pattern to represent no more than 200 sq/ft with composite samples obtained for each sample point.

The sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no further remediation activities were needed at this location.

Closure Request

After careful review, Pima requests that this incident be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Chris Jones at 575-964-7740 or chris@pimaoil.com.

Respectfully,



Chris Jones
Environmental Professional
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- TOPO Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Map

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey and Geological Data
- Appendix C- C-141's
- Appendix D- Photographic Documentation
- Appendix E- Laboratory Reports



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Figures:

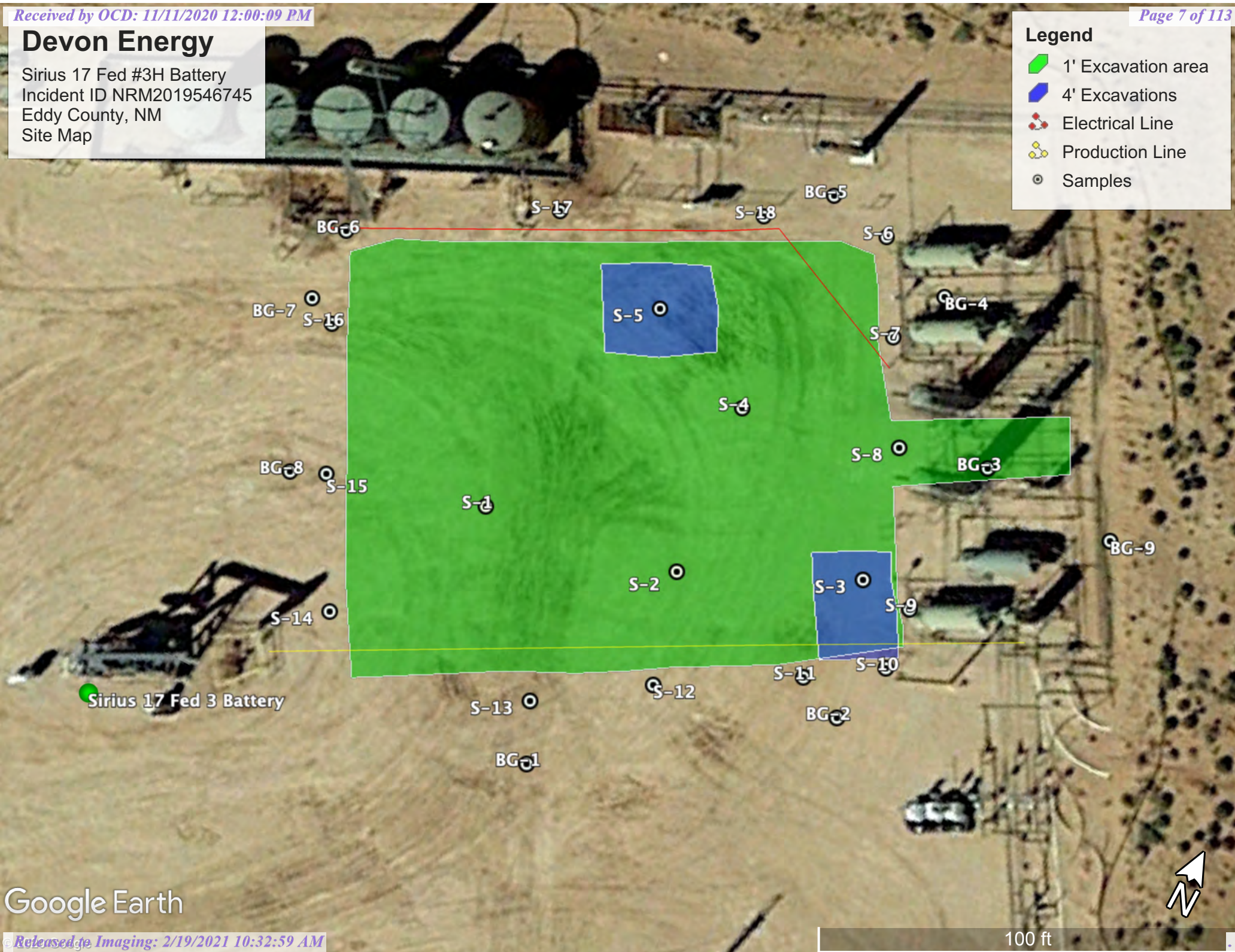
- 1-Site Map
- 2- TOPO Map
- 3- Karst Map
- 4- Location Map
- 5- Confirmation Map

Devon Energy

Sirius 17 Fed #3H Battery
Incident ID NRM2019546745
Eddy County, NM
Site Map

Legend

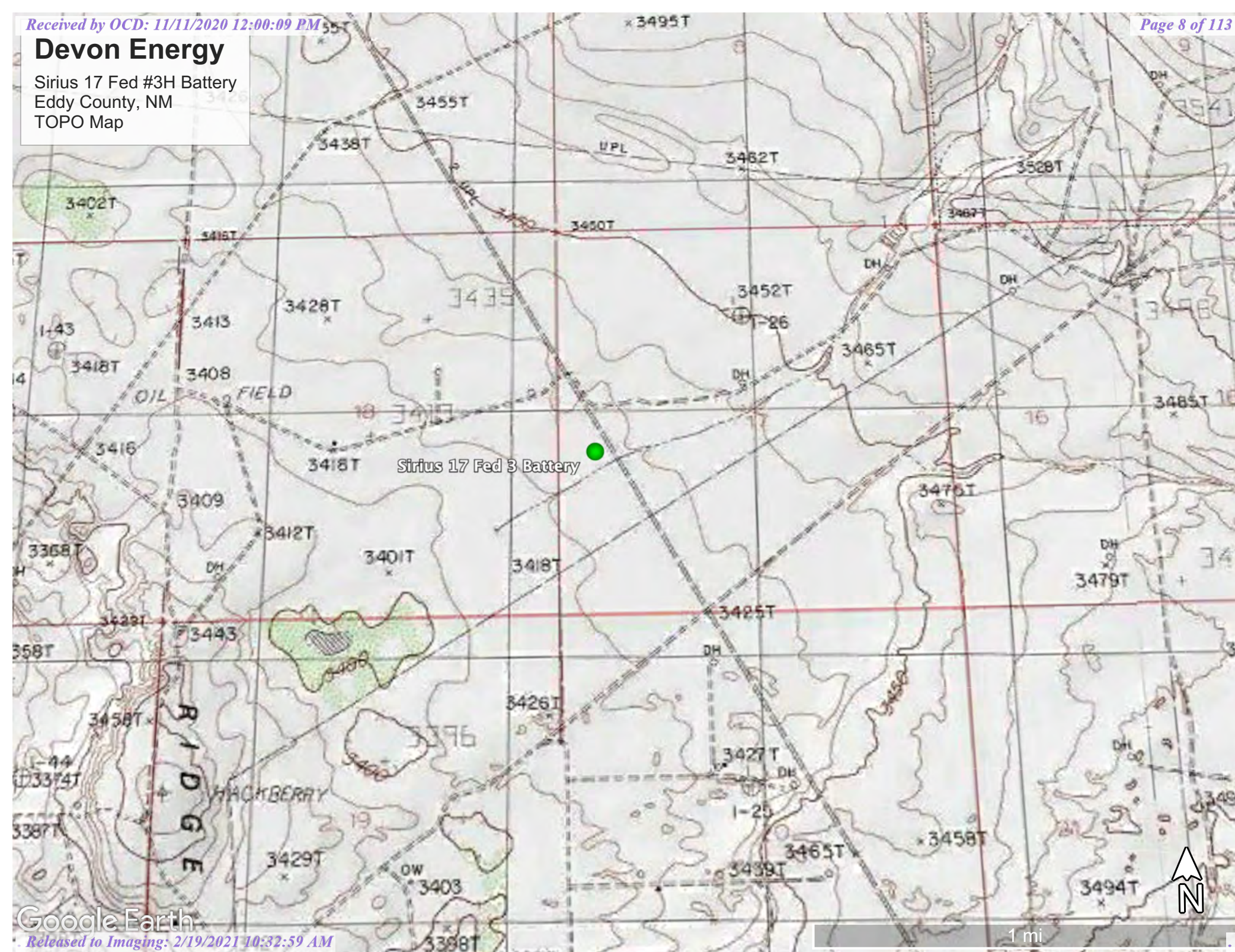
- 1' Excavation area
- 4' Excavations
- Electrical Line
- Production Line
- Samples



Google Earth

Devon Energy

Sirius 17 Fed #3H Battery
Eddy County, NM
TOPO Map



Devon Energy

Sirius 17 Fed #3H Battery
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium

Sirius 17 Fed 3 Battery

Bluestem Rd

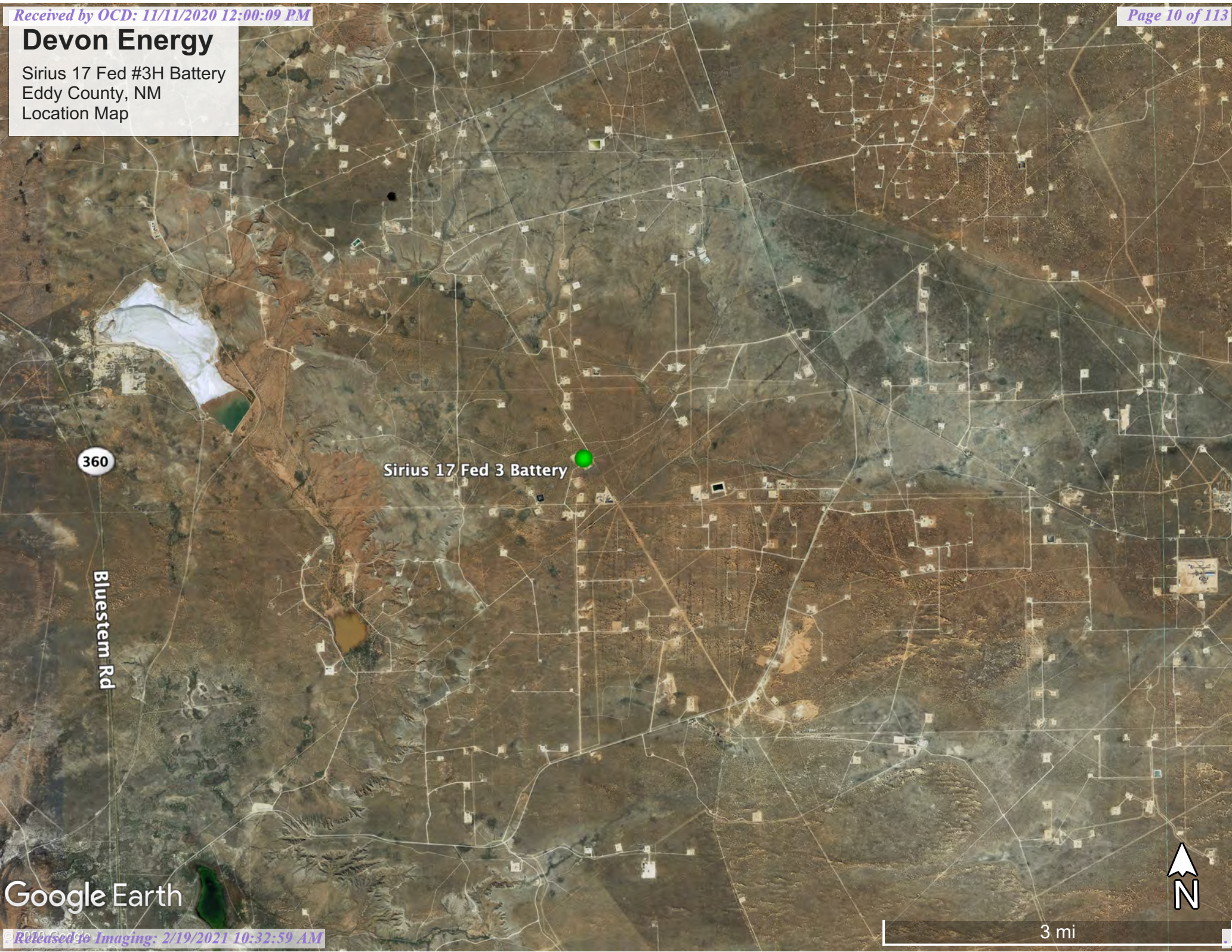
Google Earth



4 mi

Devon Energy

Sirius 17 Fed #3H Battery
Eddy County, NM
Location Map



Sirius 17 Fed 3 Battery

360

Bluestem Rd

Google Earth

3 mi



Devon Energy

Sirius 17 Fed #3H Battery
Incident ID NRM2019546745
Eddy County, NM
Confirmation Sample Map

Legend

- 1' Excavation
- 4' Excavation
- Confirmation Samples
- Electrical Line
- Production Line





Pima Environmental Services

Appendix A
Water Surveys:
OSE
USGS



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
CP00873 POD1		CP	LE	1	1	19	19S	31E		601772	3613147*	1726	340	180	160
CP00829 POD1		CP	LE	2	4	16	19S	31E		606165	3614009*	2893	120		
CP00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	2944	630		

Average Depth to Water: **180 feet**

Minimum Depth: **180 feet**

Maximum Depth: **180 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 603271.813

Northing (Y): 3614003

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.

7/11/20 11:34 AM


WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00873 POD1	1	1	19	19S	31E	601772	3613147*	

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
Driller Name:	GLENN, CLARK A."CORKY"		

Drill Start Date:	01/02/1998	Drill Finish Date:	01/05/1998	Plug Date:	
Log File Date:	01/15/1998	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	50 GPM
Casing Size:	6.62	Depth Well:	340 feet	Depth Water:	180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	240	320	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	226	340

Meter Number:	805	Meter Make:	MASTER
Meter Serial Number:	1748543	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
01/01/1999	1999	37400	A	fm			0
01/15/1999	1999	43541	A	fm			1.885
04/27/2000	2000	14849	R	jw	Meter Rollover	298.083	
07/31/2000	2000	24399	A	jw		2.931	

**YTD Meter Amounts:	Year	Amount
	1999	1.885
	2000	301.014

*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.

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

Introducing The Next Generation of USGS Water Data for the Nation

Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

323937103591001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323937103591001 19S.30E.17.24411

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°39'37", Longitude 103°59'10" NAD27
Land-surface elevation 3,339 feet above NAVD88
This well is completed in the Rustler Formation (312RSLR) local aquifer.

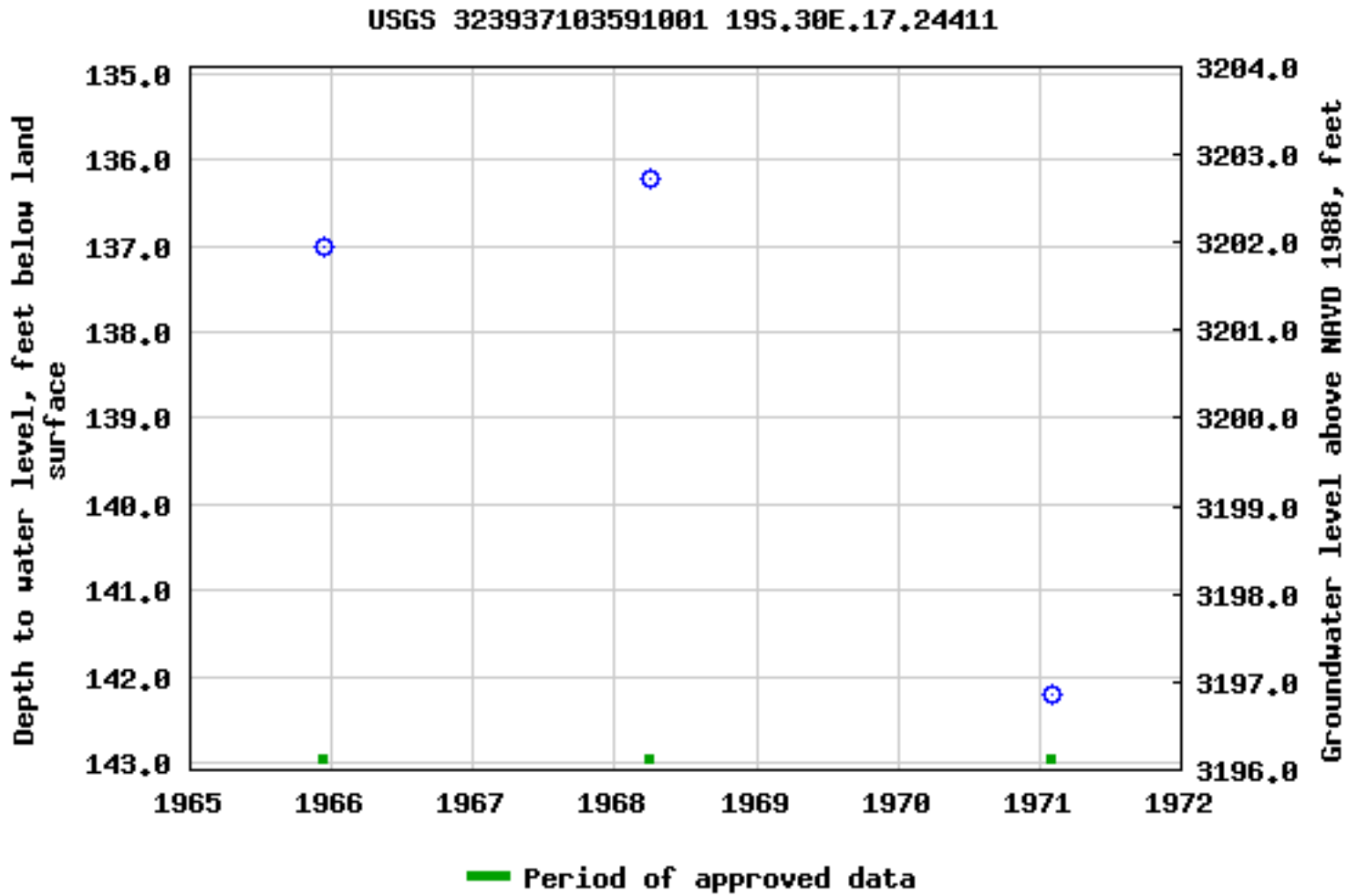
Output formats

Table_of_data

Tab-separated_data

Graph_of_data

Reselect_period



Breaks in the plot represent a gap of at least one year between field measurements.
[Download a presentation-quality graph](#)

Questions about sites/data?

Feedback on this web site

Automated retrievals

Help

Data Tips

Explanation of terms

Subscribe for system changes

News



Help

Info

Help

Info

Site Information

Site Number: 323937103591001
Site Name: 19S.30E.17.24411
Site Type: Well
Agency: USGS
[Access Data](#)



0 0.5 1mi
-103.991, 32.725

Bureau of Land Management, Esri, HERE, Ga

Devon Energy

Sirius 17 Fed #3H Battery
Eddy County, NM
Surface Water map

Legend

-  2.33 Miles
-  Surface Water

Sirius 17 Fed 3 Battery

2.33 Miles



1 mi

Google Earth



Pima Environmental Services

Appendix B
Soil Survey & Geological Data:
FEMA Flood Map

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

BA—Berino loamy fine sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w42

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 99 percent

Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 12 inches: loamy fine sand

H2 - 12 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Map Unit Description: Berino loamy fine sand, 0 to 3 percent slopes---Eddy Area, New Mexico

Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

Pajarito

Percent of map unit: 1 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMette



103°54'13"W 32°39'47"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		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		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
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 7/11/2020 at 1:45 PM 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.

USGS The National Map: Orthoimagery. Data refreshed April 2020

103°53'36"W 32°39'17"N

Released to Imaging: 2/19/2021 10:32:59 AM

1:6,000

1,500

2,000



Pima Environmental Services

Appendix C

C-141's:

Initial

Final

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 Devon Energy Production	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-748-0176
Contact email Wesley.Mathews@dvn.com	Incident #
Contact mailing address 6488 Seven Rivers Highway	

Location of Release Source

Latitude 32.6589 Longitude -103.8984
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Sirius 17 Federal 3H Battery	Site Type Oil
Date Release Discovered 7-4-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	17	19S	31E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific 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) 19	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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 Victaulic clamp at the the mag meter for the Sirius 17-3 3-phase separator failed, resulting in a release of 19 bbls of produced water. The line was isolated, repairs were made and a vac truck was dispatched and recovered 15 bbls.

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<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: Chris Jones	Title: Environmental Professional
Signature: 	Date: 7-6-20
email: chris@pimaoil.com	Telephone: 575-964-7740
<u>OCD Only</u>	
Received by: _____	Date: _____

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ 180 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	NRM2019546745
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Tom Bynum Title: EHS Consultant
Signature: *Tom Bynum* Date: 11/11/2020
email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: Chad Hensley Date: 02/19/2021

Incident ID	NRM2019546745
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Tom Bynum Title: EHS Consultant
Signature: Tom Bynum Date: 11/11/2020
email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: Chad Hensley Date: 02/19/2021

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Chad Hensley Date: 02/19/2021

Incident ID	NRM2019546745
District RP	
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: Tom Bynum Title: EHS Consultant
Signature: *Tom Bynum* Date: 11/11/2020
email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



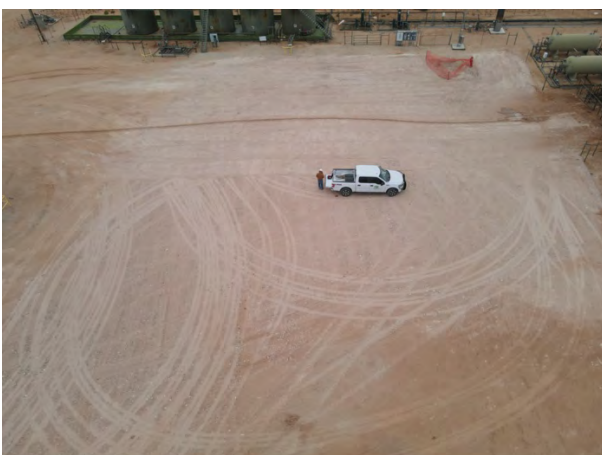
Pima Environmental Services

Appendix D:
Photographic Documentation

Excavation



Backfilled and Completed





Pima Environmental Services

Appendix E:
Laboratory Results



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

July 13, 2020

Chris Jones

Pima Environmental Services LLC

1601 N. Turner Ste 500

Hobbs, NM 88240

TEL: (575) 631-6977

FAX:

RE: Sirius 17 Fed H Battery

OrderNo.: 2007316

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 28 sample(s) on 7/8/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-1 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-001

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 5:21:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 5:21:55 PM
Surr: DNOP	93.0	55.1-146		%Rec	1	7/8/2020 5:21:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/8/2020 12:46:56 PM
Surr: BFB	92.1	66.6-105		%Rec	1	7/8/2020 12:46:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	7/8/2020 12:46:56 PM
Toluene	ND	0.036		mg/Kg	1	7/8/2020 12:46:56 PM
Ethylbenzene	ND	0.036		mg/Kg	1	7/8/2020 12:46:56 PM
Xylenes, Total	ND	0.073		mg/Kg	1	7/8/2020 12:46:56 PM
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	7/8/2020 12:46:56 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	140	61		mg/Kg	20	7/8/2020 5:13:44 PM

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 37

Analytical Report

Lab Order 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-2 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-002

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/8/2020 5:46:05 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2020 5:46:05 PM
Surr: DNOP	93.2	55.1-146		%Rec	1	7/8/2020 5:46:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/8/2020 1:10:31 PM
Surr: BFB	89.8	66.6-105		%Rec	1	7/8/2020 1:10:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	7/8/2020 1:10:31 PM
Toluene	ND	0.038		mg/Kg	1	7/8/2020 1:10:31 PM
Ethylbenzene	ND	0.038		mg/Kg	1	7/8/2020 1:10:31 PM
Xylenes, Total	ND	0.076		mg/Kg	1	7/8/2020 1:10:31 PM
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	7/8/2020 1:10:31 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	7/8/2020 5:50:57 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-3 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-003

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/8/2020 6:10:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2020 6:10:12 PM
Surr: DNOP	96.6	55.1-146		%Rec	1	7/8/2020 6:10:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/8/2020 1:34:09 PM
Surr: BFB	89.7	66.6-105		%Rec	1	7/8/2020 1:34:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	7/8/2020 1:34:09 PM
Toluene	ND	0.036		mg/Kg	1	7/8/2020 1:34:09 PM
Ethylbenzene	ND	0.036		mg/Kg	1	7/8/2020 1:34:09 PM
Xylenes, Total	ND	0.073		mg/Kg	1	7/8/2020 1:34:09 PM
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	7/8/2020 1:34:09 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	7/8/2020 6:28:09 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-4 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-004

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/8/2020 6:34:23 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2020 6:34:23 PM
Surr: DNOP	81.1	55.1-146		%Rec	1	7/8/2020 6:34:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/8/2020 1:57:47 PM
Surr: BFB	93.3	66.6-105		%Rec	1	7/8/2020 1:57:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	7/8/2020 1:57:47 PM
Toluene	ND	0.035		mg/Kg	1	7/8/2020 1:57:47 PM
Ethylbenzene	ND	0.035		mg/Kg	1	7/8/2020 1:57:47 PM
Xylenes, Total	ND	0.071		mg/Kg	1	7/8/2020 1:57:47 PM
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	7/8/2020 1:57:47 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	250	60		mg/Kg	20	7/8/2020 6:40:34 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-5 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-005

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	14	9.9		mg/Kg	1	7/8/2020 6:58:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 6:58:29 PM
Surr: DNOP	85.9	55.1-146		%Rec	1	7/8/2020 6:58:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/8/2020 2:21:30 PM
Surr: BFB	88.2	66.6-105		%Rec	1	7/8/2020 2:21:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	7/8/2020 2:21:30 PM
Toluene	ND	0.037		mg/Kg	1	7/8/2020 2:21:30 PM
Ethylbenzene	ND	0.037		mg/Kg	1	7/8/2020 2:21:30 PM
Xylenes, Total	ND	0.074		mg/Kg	1	7/8/2020 2:21:30 PM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/8/2020 2:21:30 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5900	300		mg/Kg	100	7/9/2020 10:13:34 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-6 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-006

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2020 7:22:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2020 7:22:39 PM
Surr: DNOP	91.1	55.1-146		%Rec	1	7/8/2020 7:22:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/8/2020 2:45:12 PM
Surr: BFB	93.1	66.6-105		%Rec	1	7/8/2020 2:45:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	7/8/2020 2:45:12 PM
Toluene	ND	0.039		mg/Kg	1	7/8/2020 2:45:12 PM
Ethylbenzene	ND	0.039		mg/Kg	1	7/8/2020 2:45:12 PM
Xylenes, Total	ND	0.079		mg/Kg	1	7/8/2020 2:45:12 PM
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	7/8/2020 2:45:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	4500	150		mg/Kg	50	7/9/2020 10:25:55 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-7 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-007

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/8/2020 7:46:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2020 7:46:49 PM
Surr: DNOP	79.5	55.1-146		%Rec	1	7/8/2020 7:46:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/8/2020 3:08:58 PM
Surr: BFB	93.7	66.6-105		%Rec	1	7/8/2020 3:08:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	7/8/2020 3:08:58 PM
Toluene	ND	0.035		mg/Kg	1	7/8/2020 3:08:58 PM
Ethylbenzene	ND	0.035		mg/Kg	1	7/8/2020 3:08:58 PM
Xylenes, Total	ND	0.070		mg/Kg	1	7/8/2020 3:08:58 PM
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	7/8/2020 3:08:58 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	7/8/2020 7:42:36 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-8 0

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-008

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 8:11:06 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 8:11:06 PM
Surr: DNOP	82.6	55.1-146		%Rec	1	7/8/2020 8:11:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/8/2020 4:44:03 PM
Surr: BFB	94.6	66.6-105		%Rec	1	7/8/2020 4:44:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	7/8/2020 4:44:03 PM
Toluene	ND	0.038		mg/Kg	1	7/8/2020 4:44:03 PM
Ethylbenzene	ND	0.038		mg/Kg	1	7/8/2020 4:44:03 PM
Xylenes, Total	ND	0.075		mg/Kg	1	7/8/2020 4:44:03 PM
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	7/8/2020 4:44:03 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	7/8/2020 7:55:01 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 0-6

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-009

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2020 8:35:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2020 8:35:43 PM
Surr: DNOP	95.7	55.1-146		%Rec	1	7/8/2020 8:35:43 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	7600	300		mg/Kg	100	7/9/2020 10:38:16 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.016		mg/Kg	1	7/8/2020 8:27:39 PM
Toluene	ND	0.033		mg/Kg	1	7/8/2020 8:27:39 PM
Ethylbenzene	ND	0.033		mg/Kg	1	7/8/2020 8:27:39 PM
Xylenes, Total	ND	0.065		mg/Kg	1	7/8/2020 8:27:39 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	7/8/2020 8:27:39 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	7/8/2020 8:27:39 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	7/8/2020 8:27:39 PM
Surr: Toluene-d8	108	70-130		%Rec	1	7/8/2020 8:27:39 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/8/2020 8:27:39 PM
Surr: BFB	96.4	70-130		%Rec	1	7/8/2020 8:27:39 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 1

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-010

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/8/2020 9:00:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 9:00:26 PM
Surr: DNOP	99.6	55.1-146		%Rec	1	7/8/2020 9:00:26 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	180	60		mg/Kg	20	7/8/2020 8:19:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.017		mg/Kg	1	7/8/2020 9:53:19 PM
Toluene	ND	0.035		mg/Kg	1	7/8/2020 9:53:19 PM
Ethylbenzene	ND	0.035		mg/Kg	1	7/8/2020 9:53:19 PM
Xylenes, Total	ND	0.070		mg/Kg	1	7/8/2020 9:53:19 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/8/2020 9:53:19 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	7/8/2020 9:53:19 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/8/2020 9:53:19 PM
Surr: Toluene-d8	106	70-130		%Rec	1	7/8/2020 9:53:19 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/8/2020 9:53:19 PM
Surr: BFB	98.4	70-130		%Rec	1	7/8/2020 9:53:19 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 2

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-011

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 9:25:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2020 9:25:07 PM
Surr: DNOP	91.0	55.1-146		%Rec	1	7/8/2020 9:25:07 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	69	60		mg/Kg	20	7/8/2020 8:32:15 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.017		mg/Kg	1	7/8/2020 11:18:49 PM
Toluene	ND	0.035		mg/Kg	1	7/8/2020 11:18:49 PM
Ethylbenzene	ND	0.035		mg/Kg	1	7/8/2020 11:18:49 PM
Xylenes, Total	ND	0.069		mg/Kg	1	7/8/2020 11:18:49 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	7/8/2020 11:18:49 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	7/8/2020 11:18:49 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	7/8/2020 11:18:49 PM
Surr: Toluene-d8	109	70-130		%Rec	1	7/8/2020 11:18:49 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/8/2020 11:18:49 PM
Surr: BFB	95.4	70-130		%Rec	1	7/8/2020 11:18:49 PM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 3

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-012

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 9:49:54 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2020 9:49:54 PM
Surr: DNOP	89.4	55.1-146		%Rec	1	7/8/2020 9:49:54 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	300	60		mg/Kg	20	7/8/2020 8:44:39 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.019		mg/Kg	1	7/9/2020 1:41:34 AM
Toluene	ND	0.038		mg/Kg	1	7/9/2020 1:41:34 AM
Ethylbenzene	ND	0.038		mg/Kg	1	7/9/2020 1:41:34 AM
Xylenes, Total	ND	0.076		mg/Kg	1	7/9/2020 1:41:34 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 1:41:34 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	7/9/2020 1:41:34 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	7/9/2020 1:41:34 AM
Surr: Toluene-d8	105	70-130		%Rec	1	7/9/2020 1:41:34 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/9/2020 1:41:34 AM
Surr: BFB	98.1	70-130		%Rec	1	7/9/2020 1:41:34 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 0-6

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-013

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	160	9.5		mg/Kg	1	7/8/2020 10:14:32 PM
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	7/8/2020 10:14:32 PM
Surr: DNOP	104	55.1-146		%Rec	1	7/8/2020 10:14:32 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	7/9/2020 10:50:36 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.019		mg/Kg	1	7/9/2020 2:10:05 AM
Toluene	ND	0.038		mg/Kg	1	7/9/2020 2:10:05 AM
Ethylbenzene	ND	0.038		mg/Kg	1	7/9/2020 2:10:05 AM
Xylenes, Total	ND	0.076		mg/Kg	1	7/9/2020 2:10:05 AM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	7/9/2020 2:10:05 AM
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	7/9/2020 2:10:05 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/9/2020 2:10:05 AM
Surr: Toluene-d8	105	70-130		%Rec	1	7/9/2020 2:10:05 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/9/2020 2:10:05 AM
Surr: BFB	94.0	70-130		%Rec	1	7/9/2020 2:10:05 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 1

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-014

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 10:39:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2020 10:39:07 PM
Surr: DNOP	94.0	55.1-146		%Rec	1	7/8/2020 10:39:07 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	110	60		mg/Kg	20	7/8/2020 9:09:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.022		mg/Kg	1	7/9/2020 2:38:32 AM
Toluene	ND	0.045		mg/Kg	1	7/9/2020 2:38:32 AM
Ethylbenzene	ND	0.045		mg/Kg	1	7/9/2020 2:38:32 AM
Xylenes, Total	ND	0.090		mg/Kg	1	7/9/2020 2:38:32 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 2:38:32 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	7/9/2020 2:38:32 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	7/9/2020 2:38:32 AM
Surr: Toluene-d8	106	70-130		%Rec	1	7/9/2020 2:38:32 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	7/9/2020 2:38:32 AM
Surr: BFB	95.9	70-130		%Rec	1	7/9/2020 2:38:32 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 2

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-015

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/8/2020 11:03:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2020 11:03:38 PM
Surr: DNOP	94.0	55.1-146		%Rec	1	7/8/2020 11:03:38 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	170	60		mg/Kg	20	7/8/2020 9:46:43 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.019		mg/Kg	1	7/9/2020 3:07:02 AM
Toluene	ND	0.037		mg/Kg	1	7/9/2020 3:07:02 AM
Ethylbenzene	ND	0.037		mg/Kg	1	7/9/2020 3:07:02 AM
Xylenes, Total	ND	0.074		mg/Kg	1	7/9/2020 3:07:02 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	7/9/2020 3:07:02 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	7/9/2020 3:07:02 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	7/9/2020 3:07:02 AM
Surr: Toluene-d8	104	70-130		%Rec	1	7/9/2020 3:07:02 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/9/2020 3:07:02 AM
Surr: BFB	94.9	70-130		%Rec	1	7/9/2020 3:07:02 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 3

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-016

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/8/2020 11:28:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 11:28:08 PM
Surr: DNOP	92.8	55.1-146		%Rec	1	7/8/2020 11:28:08 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	69	60		mg/Kg	20	7/8/2020 9:59:07 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.018		mg/Kg	1	7/9/2020 3:35:35 AM
Toluene	ND	0.036		mg/Kg	1	7/9/2020 3:35:35 AM
Ethylbenzene	ND	0.036		mg/Kg	1	7/9/2020 3:35:35 AM
Xylenes, Total	ND	0.073		mg/Kg	1	7/9/2020 3:35:35 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	7/9/2020 3:35:35 AM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	7/9/2020 3:35:35 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/9/2020 3:35:35 AM
Surr: Toluene-d8	105	70-130		%Rec	1	7/9/2020 3:35:35 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/9/2020 3:35:35 AM
Surr: BFB	97.1	70-130		%Rec	1	7/9/2020 3:35:35 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 0-6

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-017

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/8/2020 11:52:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 11:52:44 PM
Surr: DNOP	96.7	55.1-146		%Rec	1	7/8/2020 11:52:44 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	22000	1500		mg/Kg	500	7/9/2020 11:02:56 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.013		mg/Kg	1	7/9/2020 4:04:13 AM
Toluene	0.040	0.025		mg/Kg	1	7/9/2020 4:04:13 AM
Ethylbenzene	0.051	0.025		mg/Kg	1	7/9/2020 4:04:13 AM
Xylenes, Total	0.11	0.050		mg/Kg	1	7/9/2020 4:04:13 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	7/9/2020 4:04:13 AM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	7/9/2020 4:04:13 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/9/2020 4:04:13 AM
Surr: Toluene-d8	105	70-130		%Rec	1	7/9/2020 4:04:13 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	8.7	2.5		mg/Kg	1	7/9/2020 4:04:13 AM
Surr: BFB	97.3	70-130		%Rec	1	7/9/2020 4:04:13 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 1

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-018

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/9/2020 12:17:15 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2020 12:17:15 AM
Surr: DNOP	93.0	55.1-146		%Rec	1	7/9/2020 12:17:15 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	360	60		mg/Kg	20	7/8/2020 10:23:55 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.015		mg/Kg	1	7/9/2020 4:32:55 AM
Toluene	ND	0.030		mg/Kg	1	7/9/2020 4:32:55 AM
Ethylbenzene	ND	0.030		mg/Kg	1	7/9/2020 4:32:55 AM
Xylenes, Total	ND	0.061		mg/Kg	1	7/9/2020 4:32:55 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 4:32:55 AM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	7/9/2020 4:32:55 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	7/9/2020 4:32:55 AM
Surr: Toluene-d8	108	70-130		%Rec	1	7/9/2020 4:32:55 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	7/9/2020 4:32:55 AM
Surr: BFB	96.6	70-130		%Rec	1	7/9/2020 4:32:55 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 2

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-019

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/9/2020 1:06:05 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2020 1:06:05 AM
Surr: DNOP	96.1	55.1-146		%Rec	1	7/9/2020 1:06:05 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	300	60		mg/Kg	20	7/8/2020 10:36:20 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.016		mg/Kg	1	7/9/2020 5:01:30 AM
Toluene	ND	0.032		mg/Kg	1	7/9/2020 5:01:30 AM
Ethylbenzene	ND	0.032		mg/Kg	1	7/9/2020 5:01:30 AM
Xylenes, Total	ND	0.064		mg/Kg	1	7/9/2020 5:01:30 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 5:01:30 AM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	7/9/2020 5:01:30 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	7/9/2020 5:01:30 AM
Surr: Toluene-d8	105	70-130		%Rec	1	7/9/2020 5:01:30 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	7/9/2020 5:01:30 AM
Surr: BFB	96.0	70-130		%Rec	1	7/9/2020 5:01:30 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 3

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-020

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 4:59:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2020 4:59:03 PM
Surr: DNOP	106	55.1-146		%Rec	1	7/8/2020 4:59:03 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5100	150		mg/Kg	50	7/9/2020 11:15:15 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.015		mg/Kg	1	7/9/2020 5:29:59 AM
Toluene	ND	0.029		mg/Kg	1	7/9/2020 5:29:59 AM
Ethylbenzene	ND	0.029		mg/Kg	1	7/9/2020 5:29:59 AM
Xylenes, Total	ND	0.058		mg/Kg	1	7/9/2020 5:29:59 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	7/9/2020 5:29:59 AM
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	7/9/2020 5:29:59 AM
Surr: Dibromofluoromethane	103	70-130		%Rec	1	7/9/2020 5:29:59 AM
Surr: Toluene-d8	105	70-130		%Rec	1	7/9/2020 5:29:59 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	5.0	2.9		mg/Kg	1	7/9/2020 5:29:59 AM
Surr: BFB	95.5	70-130		%Rec	1	7/9/2020 5:29:59 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 0-6

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-021

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/8/2020 6:12:44 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2020 6:12:44 PM
Surr: DNOP	97.9	55.1-146		%Rec	1	7/8/2020 6:12:44 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	600		mg/Kg	200	7/9/2020 11:27:36 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.073		mg/Kg	5	7/9/2020 5:58:27 AM
Toluene	ND	0.15		mg/Kg	5	7/9/2020 5:58:27 AM
Ethylbenzene	ND	0.15		mg/Kg	5	7/9/2020 5:58:27 AM
Xylenes, Total	ND	0.29		mg/Kg	5	7/9/2020 5:58:27 AM
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	5	7/9/2020 5:58:27 AM
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	5	7/9/2020 5:58:27 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	5	7/9/2020 5:58:27 AM
Surr: Toluene-d8	106	70-130		%Rec	5	7/9/2020 5:58:27 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	15		mg/Kg	5	7/9/2020 5:58:27 AM
Surr: BFB	95.1	70-130		%Rec	5	7/9/2020 5:58:27 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 1

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-022

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/8/2020 6:37:16 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2020 6:37:16 PM
Surr: DNOP	85.3	55.1-146		%Rec	1	7/8/2020 6:37:16 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	570	60		mg/Kg	20	7/9/2020 12:28:02 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.016		mg/Kg	1	7/9/2020 6:26:54 AM
Toluene	ND	0.032		mg/Kg	1	7/9/2020 6:26:54 AM
Ethylbenzene	ND	0.032		mg/Kg	1	7/9/2020 6:26:54 AM
Xylenes, Total	ND	0.063		mg/Kg	1	7/9/2020 6:26:54 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	7/9/2020 6:26:54 AM
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	7/9/2020 6:26:54 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	7/9/2020 6:26:54 AM
Surr: Toluene-d8	108	70-130		%Rec	1	7/9/2020 6:26:54 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	7/9/2020 6:26:54 AM
Surr: BFB	97.4	70-130		%Rec	1	7/9/2020 6:26:54 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 2

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-023

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/8/2020 7:01:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 7:01:35 PM
Surr: DNOP	97.8	55.1-146		%Rec	1	7/8/2020 7:01:35 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	350	60		mg/Kg	20	7/9/2020 12:40:26 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.021		mg/Kg	1	7/9/2020 6:55:25 AM
Toluene	ND	0.043		mg/Kg	1	7/9/2020 6:55:25 AM
Ethylbenzene	ND	0.043		mg/Kg	1	7/9/2020 6:55:25 AM
Xylenes, Total	ND	0.086		mg/Kg	1	7/9/2020 6:55:25 AM
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	7/9/2020 6:55:25 AM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	7/9/2020 6:55:25 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	7/9/2020 6:55:25 AM
Surr: Toluene-d8	107	70-130		%Rec	1	7/9/2020 6:55:25 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	7/9/2020 6:55:25 AM
Surr: BFB	98.4	70-130		%Rec	1	7/9/2020 6:55:25 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 3

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-024

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/8/2020 7:26:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2020 7:26:02 PM
Surr: DNOP	87.2	55.1-146		%Rec	1	7/8/2020 7:26:02 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	300	60		mg/Kg	20	7/9/2020 12:52:51 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.019		mg/Kg	1	7/9/2020 7:24:09 AM
Toluene	ND	0.038		mg/Kg	1	7/9/2020 7:24:09 AM
Ethylbenzene	ND	0.038		mg/Kg	1	7/9/2020 7:24:09 AM
Xylenes, Total	ND	0.077		mg/Kg	1	7/9/2020 7:24:09 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 7:24:09 AM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	7/9/2020 7:24:09 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	7/9/2020 7:24:09 AM
Surr: Toluene-d8	108	70-130		%Rec	1	7/9/2020 7:24:09 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/9/2020 7:24:09 AM
Surr: BFB	97.3	70-130		%Rec	1	7/9/2020 7:24:09 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 0-6

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-025

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	140	9.6		mg/Kg	1	7/8/2020 7:50:25 PM
Motor Oil Range Organics (MRO)	91	48		mg/Kg	1	7/8/2020 7:50:25 PM
Surr: DNOP	98.2	55.1-146		%Rec	1	7/8/2020 7:50:25 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	18000	600		mg/Kg	200	7/9/2020 11:39:58 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.079		mg/Kg	5	7/9/2020 7:52:47 AM
Toluene	ND	0.16		mg/Kg	5	7/9/2020 7:52:47 AM
Ethylbenzene	ND	0.16		mg/Kg	5	7/9/2020 7:52:47 AM
Xylenes, Total	ND	0.31		mg/Kg	5	7/9/2020 7:52:47 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	5	7/9/2020 7:52:47 AM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	5	7/9/2020 7:52:47 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	5	7/9/2020 7:52:47 AM
Surr: Toluene-d8	105	70-130		%Rec	5	7/9/2020 7:52:47 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	7/9/2020 7:52:47 AM
Surr: BFB	96.7	70-130		%Rec	5	7/9/2020 7:52:47 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 1

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-026

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/8/2020 8:14:56 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/8/2020 8:14:56 PM
Surr: DNOP	99.3	55.1-146		%Rec	1	7/8/2020 8:14:56 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	880	60		mg/Kg	20	7/9/2020 1:17:40 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.014		mg/Kg	1	7/9/2020 8:21:20 AM
Toluene	ND	0.029		mg/Kg	1	7/9/2020 8:21:20 AM
Ethylbenzene	ND	0.029		mg/Kg	1	7/9/2020 8:21:20 AM
Xylenes, Total	ND	0.058		mg/Kg	1	7/9/2020 8:21:20 AM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	7/9/2020 8:21:20 AM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	7/9/2020 8:21:20 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	7/9/2020 8:21:20 AM
Surr: Toluene-d8	110	70-130		%Rec	1	7/9/2020 8:21:20 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	7/9/2020 8:21:20 AM
Surr: BFB	95.8	70-130		%Rec	1	7/9/2020 8:21:20 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 2

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-027

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/8/2020 8:39:20 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2020 8:39:20 PM
Surr: DNOP	102	55.1-146		%Rec	1	7/8/2020 8:39:20 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1700	60		mg/Kg	20	7/9/2020 1:30:04 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.014		mg/Kg	1	7/9/2020 8:49:50 AM
Toluene	ND	0.029		mg/Kg	1	7/9/2020 8:49:50 AM
Ethylbenzene	ND	0.029		mg/Kg	1	7/9/2020 8:49:50 AM
Xylenes, Total	ND	0.057		mg/Kg	1	7/9/2020 8:49:50 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	7/9/2020 8:49:50 AM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	7/9/2020 8:49:50 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	7/9/2020 8:49:50 AM
Surr: Toluene-d8	106	70-130		%Rec	1	7/9/2020 8:49:50 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	7/9/2020 8:49:50 AM
Surr: BFB	93.8	70-130		%Rec	1	7/9/2020 8:49:50 AM

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 2007316

Date Reported: 7/13/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-5 3

Project: Sirius 17 Fed H Battery

Collection Date: 7/6/2020

Lab ID: 2007316-028

Matrix: SOIL

Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/8/2020 9:03:46 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2020 9:03:46 PM
Surr: DNOP	102	55.1-146		%Rec	1	7/8/2020 9:03:46 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1000	60		mg/Kg	20	7/9/2020 1:42:29 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.017		mg/Kg	1	7/9/2020 9:18:19 AM
Toluene	ND	0.034		mg/Kg	1	7/9/2020 9:18:19 AM
Ethylbenzene	ND	0.034		mg/Kg	1	7/9/2020 9:18:19 AM
Xylenes, Total	ND	0.067		mg/Kg	1	7/9/2020 9:18:19 AM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/9/2020 9:18:19 AM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	7/9/2020 9:18:19 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/9/2020 9:18:19 AM
Surr: Toluene-d8	104	70-130		%Rec	1	7/9/2020 9:18:19 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/9/2020 9:18:19 AM
Surr: BFB	94.3	70-130		%Rec	1	7/9/2020 9:18:19 AM

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

WO#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: MB-53584	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53584	RunNo: 70204								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439524 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53584	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53584	RunNo: 70204								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439525 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Sample ID: MB-53585	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53585	RunNo: 70204								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439554 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53585	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53585	RunNo: 70204								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439555 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: MB-53570	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53570	RunNo: 70172								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439221 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	8.9		10.00		88.9	55.1	146			

Sample ID: LCS-53570	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53570	RunNo: 70172								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439222 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	70	130			
Surr: DNOP	4.5		5.000		89.9	55.1	146			

Sample ID: 2007316-020AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-3 3	Batch ID: 53574	RunNo: 70165								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439363 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.3	46.38	5.847	103	47.4	136			
Surr: DNOP	4.2		4.638		90.9	55.1	146			

Sample ID: 2007316-020AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-3 3	Batch ID: 53574	RunNo: 70165								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439364 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.7	48.64	5.847	98.6	47.4	136	0.631	43.4	
Surr: DNOP	4.2		4.864		86.2	55.1	146	0	0	

Sample ID: MB-53574	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53574	RunNo: 70165								
Prep Date: 7/8/2020	Analysis Date: 7/8/2020	SeqNo: 2439380 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.0	55.1	146			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: LCS-53574	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 53574		RunNo: 70165							
Prep Date: 7/8/2020	Analysis Date: 7/8/2020		SeqNo: 2439381		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	70	130			
Surr: DNOP	4.5		5.000		90.5	55.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: mb-53540	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53540	RunNo: 70196								
Prep Date: 7/7/2020	Analysis Date: 7/8/2020	SeqNo: 2439192 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	930		1000		93.0	66.6	105			

Sample ID: lcs-53540	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53540	RunNo: 70196								
Prep Date: 7/7/2020	Analysis Date: 7/8/2020	SeqNo: 2439193 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.4	80	120			
Surr: BFB	1000		1000		99.7	66.6	105			

Sample ID: mb-53506	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53506	RunNo: 70196								
Prep Date: 7/6/2020	Analysis Date: 7/9/2020	SeqNo: 2439224 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.0	66.6	105			

Sample ID: lcs-53506	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53506	RunNo: 70196								
Prep Date: 7/6/2020	Analysis Date: 7/8/2020	SeqNo: 2439229 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	66.6	105			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: GS70227	RunNo: 70227								
Prep Date:	Analysis Date: 7/9/2020	SeqNo: 2440656 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	66.6	105			

Sample ID: 2.5ug gro lcs-II	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G2S70227	RunNo: 70227								
Prep Date:	Analysis Date: 7/9/2020	SeqNo: 2440657 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	66.6	105			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: mb1	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: GS70227				RunNo: 70227					
Prep Date:	Analysis Date: 7/9/2020				SeqNo: 2440697	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.9	66.6	105			

Sample ID: mb1l	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: G2S70227				RunNo: 70227					
Prep Date:	Analysis Date: 7/9/2020				SeqNo: 2440698	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		89.6	66.6	105			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: mb-53540	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53540	RunNo: 70196								
Prep Date: 7/7/2020	Analysis Date: 7/8/2020	SeqNo: 2439260	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID: LCS-53540	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53540	RunNo: 70196								
Prep Date: 7/7/2020	Analysis Date: 7/8/2020	SeqNo: 2439261	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID: mb-53506	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53506	RunNo: 70196								
Prep Date: 7/6/2020	Analysis Date: 7/9/2020	SeqNo: 2439290	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: LCS-53506	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53506	RunNo: 70196								
Prep Date: 7/6/2020	Analysis Date: 7/8/2020	SeqNo: 2439291	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Qualifiers:

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

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

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

WO#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R70209	RunNo: 70209								
Prep Date:	Analysis Date: 7/8/2020	SeqNo: 2440060	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	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.7	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.53		0.5000		107	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R70209	RunNo: 70209								
Prep Date:	Analysis Date: 7/8/2020	SeqNo: 2440061	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	70	130			
Toluene	1.0	0.050	1.000	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.2	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.7	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			

Sample ID: 2007316-009ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-1 0-6	Batch ID: R70209	RunNo: 70209								
Prep Date:	Analysis Date: 7/8/2020	SeqNo: 2440063	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.016	0.6506	0	110	70	130			
Toluene	0.68	0.033	0.6506	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.36		0.3253		110	70	130			
Surr: 4-Bromofluorobenzene	0.31		0.3253		96.3	70	130			
Surr: Dibromofluoromethane	0.33		0.3253		101	70	130			
Surr: Toluene-d8	0.35		0.3253		108	70	130			

Sample ID: 2007316-009amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-1 0-6	Batch ID: R70209	RunNo: 70209								
Prep Date:	Analysis Date: 7/8/2020	SeqNo: 2440064	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.016	0.6506	0	105	70	130	4.86	20	
Toluene	0.65	0.033	0.6506	0	99.5	70	130	5.57	20	

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#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: 2007316-009amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S-1 0-6	Batch ID: R70209	RunNo: 70209								
Prep Date:	Analysis Date: 7/8/2020	SeqNo: 2440064	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.35		0.3253		109	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.31		0.3253		94.4	70	130	0	0	
Surr: Dibromofluoromethane	0.32		0.3253		97.9	70	130	0	0	
Surr: Toluene-d8	0.35		0.3253		108	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

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

WO#: 2007316

13-Jul-20

Client: Pima Environmental Services LLC**Project:** Sirius 17 Fed H Battery

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: G70209		RunNo: 70209							
Prep Date:	Analysis Date: 7/8/2020		SeqNo: 2440086		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 lcs	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: G70209		RunNo: 70209							
Prep Date:	Analysis Date: 7/8/2020		SeqNo: 2440087		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	480		500.0		95.9	70	130			

Sample ID: 2007316-010ams	SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: S-1 1	Batch ID: G70209		RunNo: 70209							
Prep Date:	Analysis Date: 7/8/2020		SeqNo: 2440091		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.5	17.44	0	85.6	70	130			
Surr: BFB	340		348.7		98.6	70	130			

Sample ID: 2007316-010amsd	SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: S-1 1	Batch ID: G70209		RunNo: 70209							
Prep Date:	Analysis Date: 7/8/2020		SeqNo: 2440092		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	3.5	17.44	0	80.4	70	130	6.27	20	
Surr: BFB	340		348.7		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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Pima Environmental Services LLC

Work Order Number: 2007316

RcptNo: 1

Received By: Juan Rojas 7/8/2020 9:25:00 AM

Completed By: Juan Rojas 7/8/2020 9:45:16 AM

Reviewed By: EM 7/8/20

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°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? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: SPA 7.8.20

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	4.5	Good				
2	3.6	Good				



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

October 21, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: SIRIUS 17 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 10/16/20 11:30.

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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	10/16/2020	Sampling Date:	10/13/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	SIRIUS 17 FED 3H	Sampling Condition:	** (See Notes)
Project Number:	22	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: N - 1 SIDEWALL (H002758-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3		
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1		
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6		
Total BTEX	<0.300	0.300	10/16/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/19/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/13/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: W - 3 SIDEWALL (H002758-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/13/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: W - 4 SIDEWALL (H002758-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/19/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/13/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NW - 1 BOTTOM (H002758-04)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3		
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1		
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6		
Total BTX	<0.300	0.300	10/16/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/19/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	10/16/2020	Sampling Date:	10/13/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	SIRIUS 17 FED 3H	Sampling Condition:	** (See Notes)
Project Number:	22	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: NW - 2 BOTTOM (H002758-05)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3		
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1		
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1		
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6		
Total BTEx	<0.300	0.300	10/16/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/19/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	10/16/2020	Sampling Date:	10/13/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	SIRIUS 17 FED 3H	Sampling Condition:	** (See Notes)
Project Number:	22	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: NW - 3 BOTTOM (H002758-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/19/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/13/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NW - 4 BOTTOM (H002758-07)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/19/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.2 % 42.2-156

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:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/13/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 5 BOTTOM (H002758-08)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

BILL TO

Company Name: Prim Environmental

Project Manager: Chris Jones

Address: 1601 N. Turner STE 500

City: Albany State: NY Zip: 518240

Phone #: 518-964-7740 Fax #:

Project #: 022 Project Owner: Devon

Project Name: Sirius 17 Fed 34

Project Location: Eddy, NY

Sampler Name: T. Jones

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H002758

1 N-1 Side wall

2 W-3 Side wall

3 W-4 Side wall

4 W-1 Bottom

5 W-2 Bottom

6 W-3 Bottom

7 W-4 Bottom

8 S-5 Bottom

P.O. #: 208 74829

Company: Devon

Attn: Tom Bynum

Address:

City:

State: Zip:

Phone #:

Fax #:

PRESERV

SAMPLING

DATE

TIME

10-13-20

10-13-20

10-13-20

10-13-20

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10-13-20

10-13-20

10-13-20

10-13-20

10-13-20

TPH

EXT

BTEX

Chlorides

Standard

Rush

Bacteria (only)

Cool Intact

Yes

No

Corrected Temp. °C

Sample Condition</



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

October 21, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: SIRIUS 17 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 10/16/20 11:30.

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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/14/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 5 NORTH WALL 4' (H002757-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2020	ND	2.01	101	2.00	5.93	QR-03
Toluene*	<0.050	0.050	10/17/2020	ND	2.02	101	2.00	5.30	QR-03
Ethylbenzene*	<0.050	0.050	10/17/2020	ND	2.02	101	2.00	6.70	
Total Xylenes*	<0.150	0.150	10/17/2020	ND	5.84	97.3	6.00	6.51	
Total BTEX	<0.300	0.300	10/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/16/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.2 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/14/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 5 EAST WALL 4' (H002757-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2020	ND	2.01	101	2.00	5.93	
Toluene*	<0.050	0.050	10/17/2020	ND	2.02	101	2.00	5.30	
Ethylbenzene*	<0.050	0.050	10/17/2020	ND	2.02	101	2.00	6.70	
Total Xylenes*	<0.150	0.150	10/17/2020	ND	5.84	97.3	6.00	6.51	
Total BTX	<0.300	0.300	10/17/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/16/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/14/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 5 WEST WALL 4' (H002757-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/16/2020
Reported: 10/21/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/14/2020
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: S - 5 SOUTH WALL 4' (H002757-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2020	ND	1.80	89.9	2.00	14.3	
Toluene*	<0.050	0.050	10/16/2020	ND	1.84	92.2	2.00	14.1	
Ethylbenzene*	<0.050	0.050	10/16/2020	ND	1.78	88.9	2.00	15.1	
Total Xylenes*	<0.150	0.150	10/16/2020	ND	5.14	85.7	6.00	15.6	
Total BTX	<0.300	0.300	10/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2020	ND	214	107	200	1.02	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	206	103	200	0.404	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Company Name: *Pima Environmental*
Project Manager: *21*

ANALYSIS REQUEST

Salpinner Name: Listen Toner

10

SAMPLING

1402757

10-11-20	✓	✓
02-11-20	✓	✓
03-11-20	✓	✓
04-11-20	✓	✓

↖	↖	↖	↖
↖	↖	↖	↖
↖	↖	↖	↖

[illegible]

Verbal Recall	Yes	No	Adm. Pt.	"
by the client for the				
or completion of the applicable				
client, its subsidiaries,				
agents or affiliates.				

[illegible]

Received By: Guara Delaf JR

verbal result. ☐ yes ☐ NO Add Phone #:

All Results are emailed. Please provide Email address.

REMARKS:

CHECKED BY

10

Cool Intact
☐ Yes ☒ Yes

Rush

☐ Cool ☐ Intact

Observed Temp. °C

FOIA b-7(D) - D000 K.S.T. 06/04/20

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

October 22, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: SIRIUS 17 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 10/20/20 13:30.

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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	10/20/2020	Sampling Date:	10/16/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SIRIUS 17 FED 3H	Sampling Condition:	Cool & Intact
Project Number:	22	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: HV - BOTTOM COMP (H002780-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/22/2020	ND	400	100	400	0.00		

Sample ID: HV - N. SIDEWALL COMP (H002780-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/22/2020	ND	400	100	400	0.00	

Sample ID: HV - S. SIDEWALL COMP (H002780-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/22/2020	ND	400	100	400	0.00	

Sample ID: HV - E. SIDEWALL COMP (H002780-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/22/2020	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/20/2020
Reported: 10/22/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/16/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: HV - W. SIDEWALL COMP (H002780-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: S 3 - S. SIDEWALL COMP 4' (H002780-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: S 3 - N. SIDEWALL COMP 4' (H002780-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: S 3 - E. SIDEWALL COMP 4' (H002780-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: S 3 - W. SIDEWALL COMP 4' (H002780-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/22/2020	ND	416	104	400	3.92	

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/20/2020
Reported: 10/22/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/16/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 3 - BOTTOM COMP 4' (H002780-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: NE - 1 BOTTOM (H002780-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: NE - 2 BOTTOM (H002780-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: NE - 3 BOTTOM (H002780-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: N 2 - SIDEWALL (H002780-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	ND	416	104	400	3.92		

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	10/20/2020	Sampling Date:	10/16/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	SIRIUS 17 FED 3H	Sampling Condition:	Cool & Intact
Project Number:	22	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - EDDY COUNTY		

Sample ID: N 3 - SIDEWALL (H002780-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/22/2020	ND	416	104	400	3.92		

Sample ID: W 1 - SIDEWALL (H002780-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: W 2 - SIDEWALL (H002780-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: S - 1 - SIDEWALL 1' (H002780-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: S - 2 - SIDEWALL 1' (H002780-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/22/2020	ND	416	104	400	3.92	

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/20/2020
Reported: 10/22/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/16/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 - SIDEWALL 1' (H002780-20)

Chloride, SM4500CI-B	mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: E - 1 - SIDEWALL 1' (H002780-21)

Chloride, SM4500CI-B	mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: E - 2 - SIDEWALL 1' (H002780-22)

Chloride, SM4500CI-B	mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: E - 3 - SIDEWALL 1' (H002780-23)

Chloride, SM4500CI-B	mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/22/2020	ND	416	104	400	3.92	

Sample ID: SW - 4 - BOTTOM 1' (H002780-24)

Chloride, SM4500CI-B	mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/22/2020	ND	416	104	400	3.92	

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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/20/2020
Reported: 10/22/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/16/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SE - 1 - BOTTOM 1' (H002780-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/22/2020	ND	400	100	400	0.00		

Sample ID: SE - 2 - BOTTOM 1' (H002780-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/22/2020	ND	400	100	400	0.00	

Sample ID: SE - 3 - BOTTOM 1' (H002780-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/22/2020	ND	400	100	400	0.00		

Sample ID: SW - 1 - BOTTOM 1' (H002780-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2020	ND	400	100	400	0.00	

Sample ID: SW - 2 - BOTTOM 1' (H002780-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/22/2020	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/20/2020
Reported: 10/22/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/16/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 3 - BOTTOM 1' (H002780-30)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/22/2020	ND	400	100	400	0.00	

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Fima</i>		P.O. #: <i>20874829</i>		ANALYSIS REQUEST	
Project Manager: <i>Chris Jones</i>		Company: <i>Devon</i>			
Address: <i>1601 N. Turner Ste 500</i>		Attn:			
City: <i>Hobbs</i>		Address:			
Phone #: <i>964-7740</i>		City:			
Fax #: <i></i>		State:			
Project #: <i>22</i>		Zip:			
Project Name: <i>Sirius 17 Fed 3H Battery</i>		Phone #:			
Project Location: <i>Eddy, NM</i>		Fax #:			
Sampler Name: <i>Tristen Jones</i>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV		DATE	TIME	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ICE / COOL	OTHER :			
<i>H003780</i>	<i>HV - Bottom Comp</i>	<i>C</i>				<i>✓</i>						<i>10-10-20</i>	<i>1005</i>	
	<i>HV - N. Sidewall Comp</i>												<i>1010</i>	
	<i>HV - S. Sidewall Comp</i>												<i>1015</i>	
	<i>HV - E. Sidewall Comp</i>												<i>1020</i>	
	<i>HV - W. Sidewall Comp</i>												<i>1025</i>	
	<i>S-3 - S. Sidewall Comp 4'</i>												<i>1030</i>	
	<i>S-3 - N. Sidewall Comp 4'</i>												<i>1035</i>	
	<i>S-3 - E. Sidewall Comp 4'</i>												<i>1040</i>	
	<i>S-3 - W. Sidewall Comp 4'</i>												<i>1045</i>	

Relinquished By:		Date: <i>10-20-20</i>	Received By: <i>Tristen Jones</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Date: <i>10-20-20</i>	Received By: <i>Tristen Jones</i>	All Results are emailed. Please provide Email address:	
Time:		REMARKS:			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard
<i>UPS</i>	<i>5.3</i>	<i>Cool Intact</i>	<i>TD-</i>		<i>Rush</i>
Sampler - UPS - Buis - Other:	Corrected Temp. °C	<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113	<input type="checkbox"/> Bacteria (only) Sample Condition
		<input type="checkbox"/> Yes <input type="checkbox"/> No		Correction Factor None	<input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					Corrected Temp. °C

FORM-000-K-3-1 0010420

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Pima</u>		P.O. #: <u>20874829</u>		ANALYSIS REQUEST	
Project Manager: <u>Chris Jones</u>		Company: <u>Devon</u>			
Address: <u>1601 N. Turner Ste 500</u>		Attn: <u></u>			
City: <u>Hobbs</u>		Address: <u></u>			
Phone #: <u>964-7740</u>		City: <u></u>			
Fax #: <u></u>		State: <u></u>			
Project #: <u>22</u>		Zip: <u></u>			
Project Name: <u>Sivius 17 Fed 3H Battery</u>		Phone #: <u></u>			
Project Location: <u>Eddy, NM</u>		Fax #: <u></u>			
Sampler Name: <u>Tristen Jones</u>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
#002780	NE-1 Bottom	C								10-16-20	1050	Chlorides
11	NE-2 Bottom										1100	
12	NE-3 Bottom										1110	
13	NE-3 Bottom										1120	
14	N2-Sidecell										1130	
15	N3-Sidecell										1140	
16	N1-Sidecell										1150	
17	N2-Sidecell										1200	
18	S-1-Sidecell										1210	
19	S-2-Sidecell										1220	
20	S-3-Sidecell											

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Relinquished By:	Date: <u>10-20-20</u>	Received By: <u>Jessica Clark</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <u></u>
Relinquished By:	Date: <u>10-20-20</u>	Received By: <u>Jessica Clark</u>	All Results are emailed. Please provide Email address: <u></u>	
Delivered By: (Circle One)	Observed Temp. °C: <u>5.3</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: (Initials) <u>J.D.</u>	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u></u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID #113	Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact
			Correction Factor: <u>None</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
				Observed Temp. °C: <u></u>
				Corrected Temp. °C: <u></u>

FORM-000-R-3-1-00104-20

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Pima</u>		P.O. #: <u>20874829</u>		ANALYSIS REQUEST	
Project Manager: <u>Chris Jones</u>		Company: <u>Devon</u>			
Address: <u>1601 N. Turner Ste 500</u>		Attn:			
City: <u>Albuquerque</u>		Address:			
Phone #: <u>964-7740</u>		City:			
Fax #: <u></u>		State:			
Project #: <u>22</u>		Zip:			
Project Name: <u>Sirius 17 Fed 3H Battery</u>		Phone #:			
Project Location: <u>Eddy, NM</u>		Fax #:			
Sampler Name: <u>Tristen Jones</u>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H003780</u>	<u>E-1 Sidecell</u>	<u>1</u>	<u>1</u>			<u>1</u>						<u>10-11-20</u>	<u>1230</u>	<u>Chlorides</u>
<u>21</u>	<u>E-2 Sidecell</u>	<u>1</u>	<u>1</u>											
<u>22</u>	<u>E-3 Sidecell</u>	<u>1</u>	<u>1</u>											
<u>23</u>	<u>SW-1 Bottom</u>	<u>1</u>	<u>1</u>											
<u>24</u>	<u>SE-1 Bottom</u>	<u>1</u>	<u>1</u>											
<u>25</u>	<u>SE-2 Bottom</u>	<u>1</u>	<u>1</u>											
<u>26</u>	<u>SE-3 Bottom</u>	<u>1</u>	<u>1</u>											
<u>27</u>	<u>SW-1 Bottom</u>	<u>1</u>	<u>1</u>											
<u>28</u>	<u>SW-2 Bottom</u>	<u>1</u>	<u>1</u>											
<u>29</u>	<u>SW-3 Bottom</u>	<u>1</u>	<u>1</u>											
<u>30</u>	<u>SW-3 Bottom</u>	<u>1</u>	<u>1</u>											

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <u>10-20-20</u>	Received By: <u>Lawrence Clark</u>	Time: <u>1330</u>
Relinquished By:	Date:	Received By:	Time:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input type="checkbox"/>			<input checked="" type="checkbox"/> Rush	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
		Yes <input type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

REMARKS:

† Cardinal cannot accept verbal changes. Please email changes to celay.keene@cardinallabsnm.com



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

October 27, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: SIRIUS 17 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 10/27/20 10:23.

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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 10/27/2020
Reported: 10/27/2020
Project Name: SIRIUS 17 FED 3H
Project Number: 22
Project Location: DEVON - EDDY COUNTY

Sampling Date: 10/22/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SE - 2 BOTTOM 1.5' (H002853-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/27/2020	ND	400	100	400	3.92	

Sample ID: S5 - E WALL 4' (H002853-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/27/2020	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 04, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: SIRIUS 17 FED 3H

Enclosed are the results of analyses for samples received by the laboratory on 10/29/20 12:00.

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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
CHRIS JONES
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received:	10/29/2020	Sampling Date:	10/28/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	SIRIUS 17 FED 3H	Sampling Condition:	Cool & Intact
Project Number:	22	Sample Received By:	Jodi Henson
Project Location:	DEVON - EDDY COUNTY		

Sample ID: S-5 E. WALL COMP 4' (H002866-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/29/2020	ND	432	108	400	3.77		

Sample ID: S-5 E. BOTTOM COMP 4.5' (H002866-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/29/2020	ND	432	108	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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 11156

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
PIMA ENVIRONMENTAL SERVICES, L	1601 N. Turner	329999	11156	C-141
Suite 500	Hobbs, NM88240			

OCD Reviewer	Condition
chensley	None