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

September 4, 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. No.

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 not yet been assigned an RP or Incident ID 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 1 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)-interlayed 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 4.

Site Assessment and Soil Sampling Results

On July 23, 2020, Pima Environmental conducted a site assessment and obtained soil samples to confirm the integrity of the liner, and the containment was not breached. 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 >100')											
Sample Date 7-6-20		Field Screening Utilizing PID Meter, Chloride Strips and 5300 Method			NM Approved Laboratory Results						
Sample ID	Depth (BGS)	VOC	Benzene	Chlorides	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

Remediation Activities

The sample results were below NMOCD Closure Criteria 19.15.29 NMAC. Based on these findings, no 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

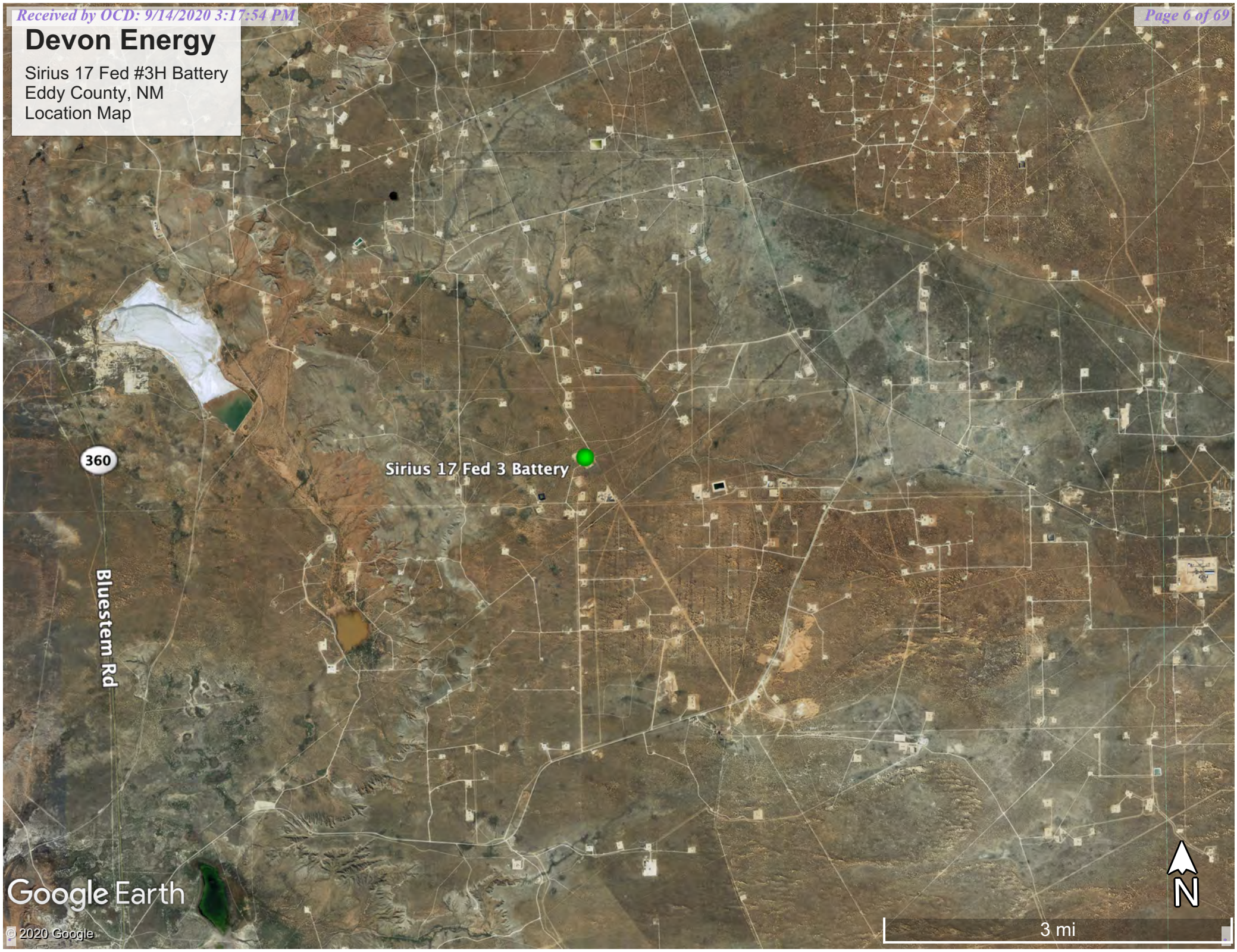
Appendices:
Appendix A- Referenced Water Surveys
Appendix B- Soil Survey and Geological Data
Appendix C- C-141's
Appendix D- Laboratory Reports

Pima Environmental Services

Figures:
1-Location Map
2- TOPO Map
3- Karst Map
4- Site Map

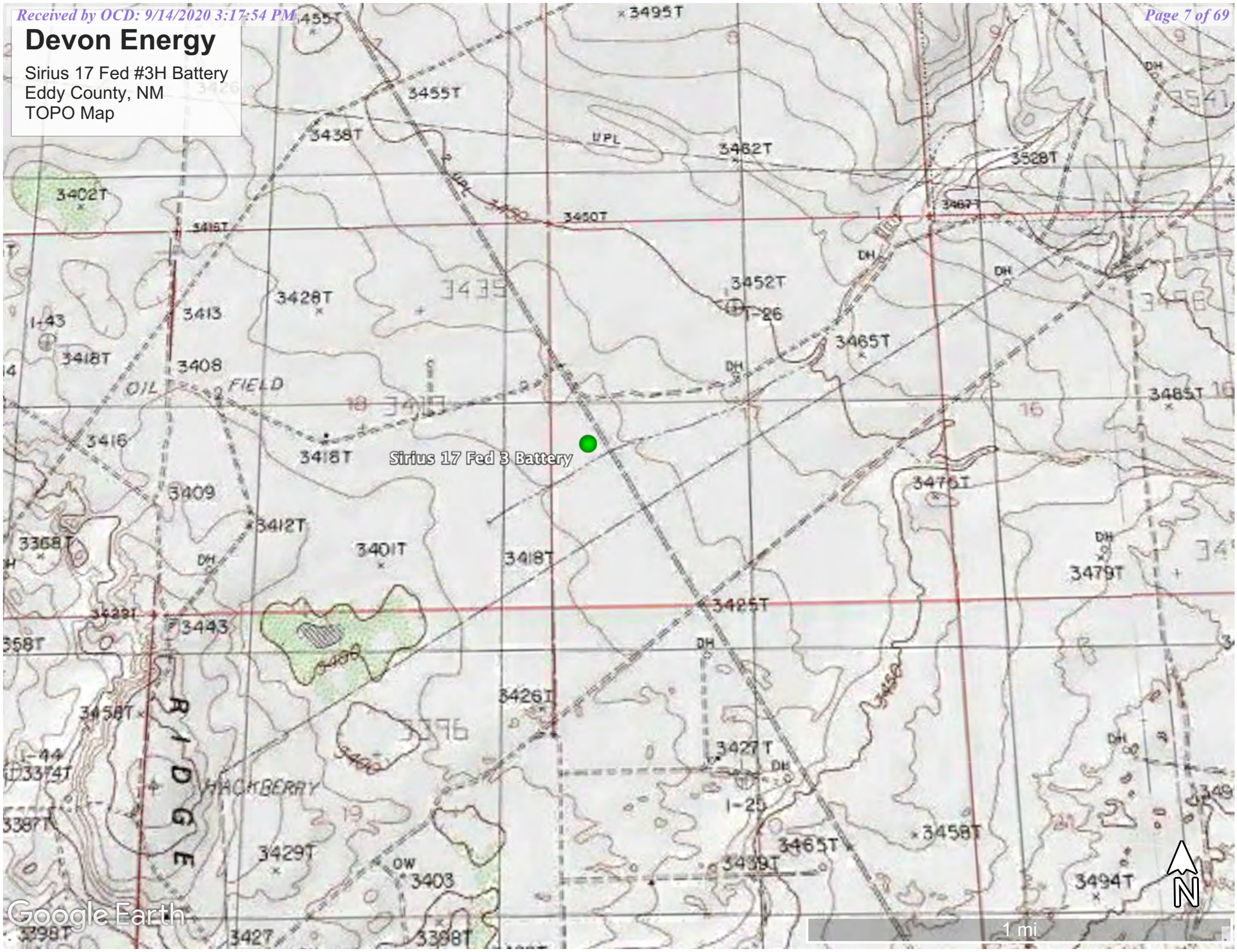
Devon Energy

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



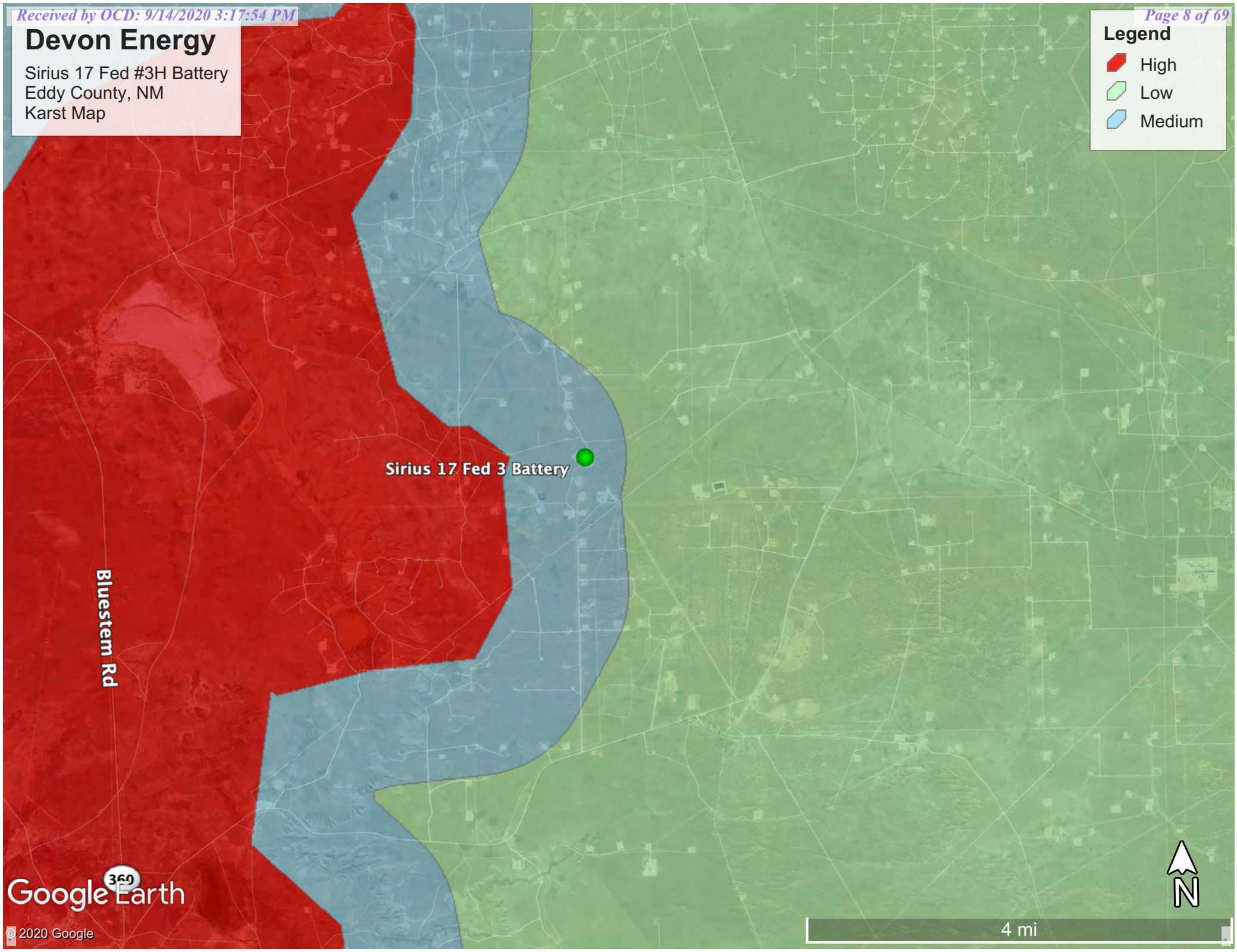
Devon Energy

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



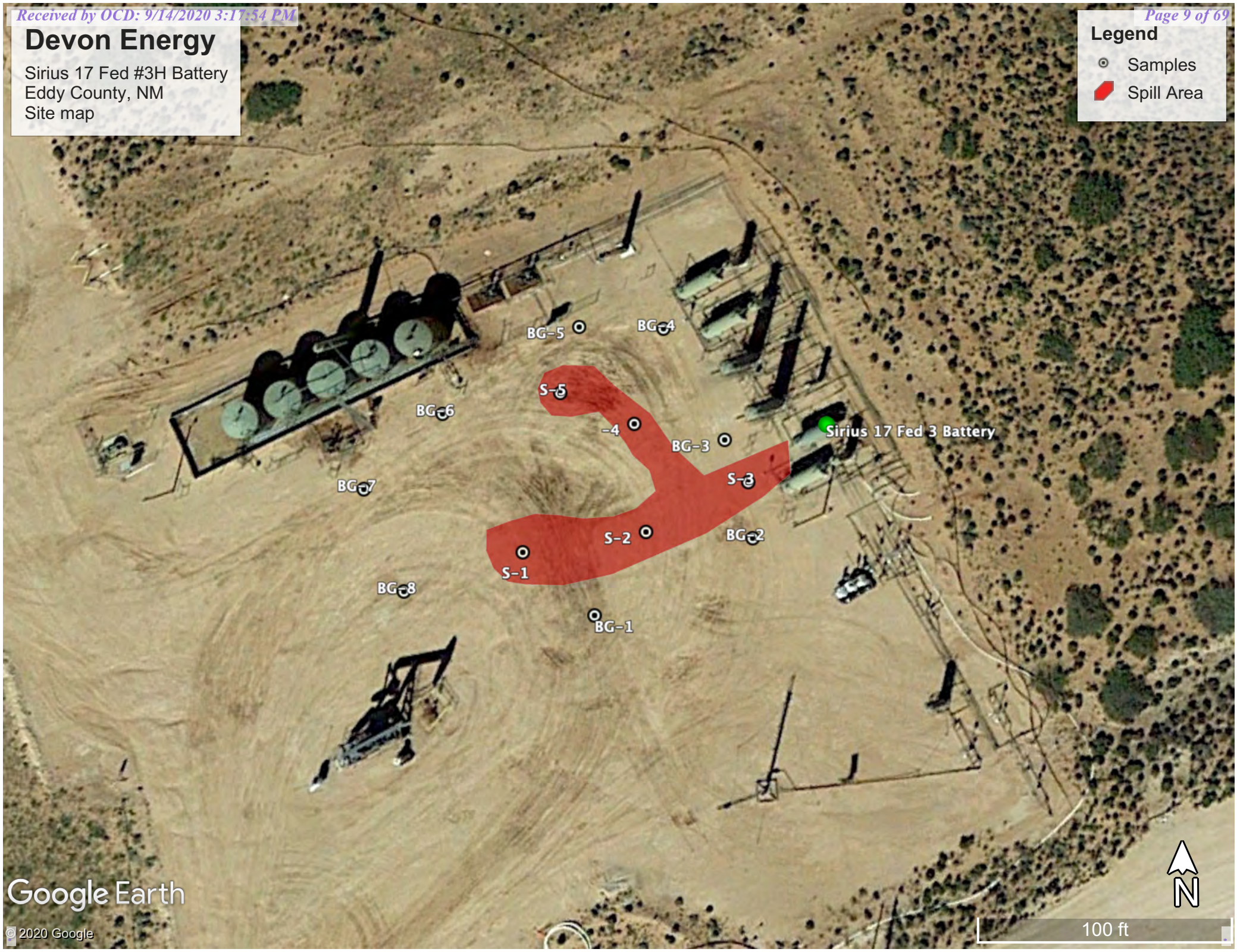
Devon Energy

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



Devon Energy

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



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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	Depth Well	Depth Water	Water Column
CP 00873 POD1		CP	LE		1	1	19	19S	31E	601772	3613147*	1726	340	180	160
CP 00829 POD1		CP	LE		2	4	16	19S	31E	606165	3614009*	2893	120		
CP 00357 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**

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	Twn	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**

National Water Information System: Mapper

Help Info

Sites Map

Search

Surface-Water Sites

Groundwater Sites

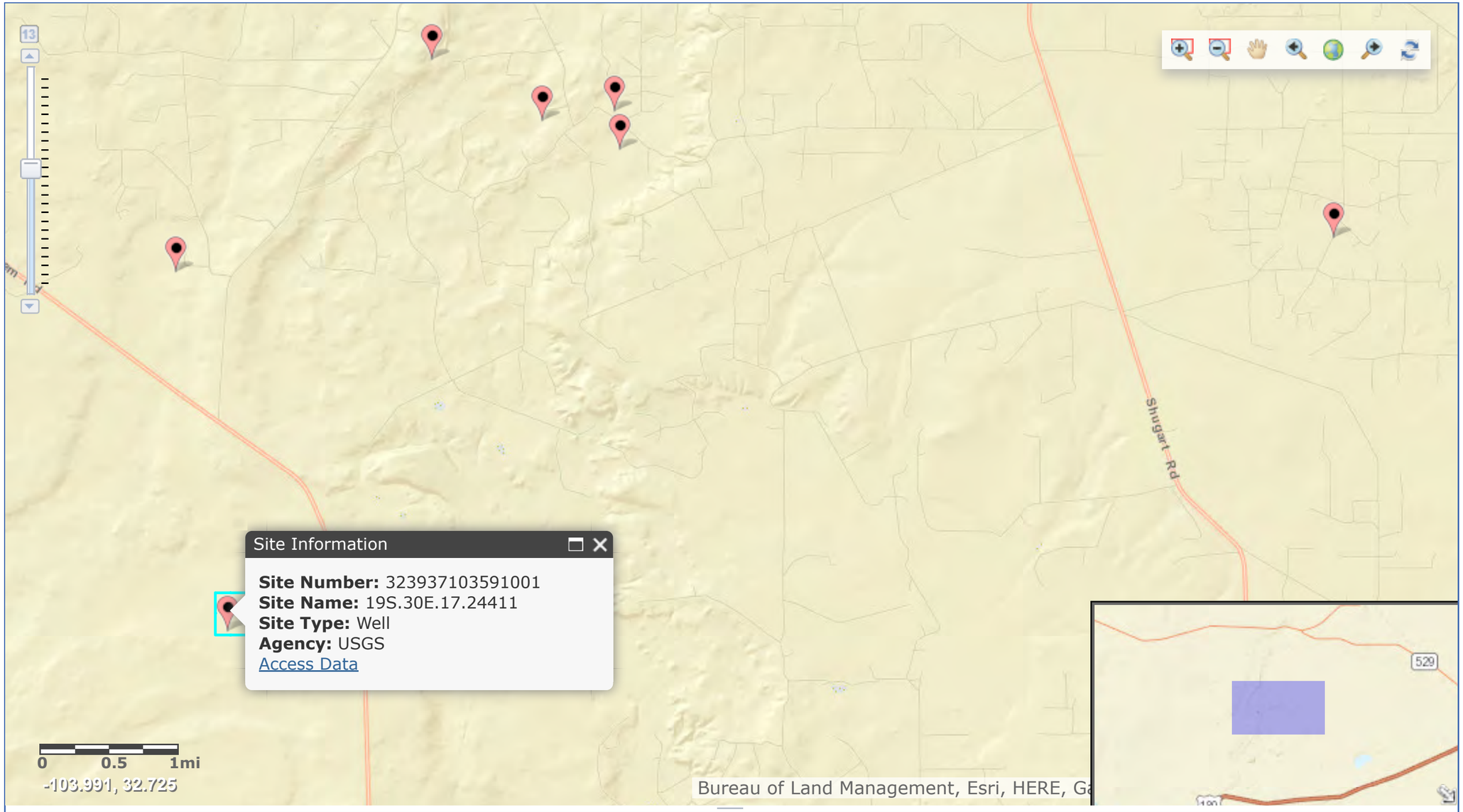
Active Sites
- Any data
- Instantaneous data
- Daily data
- Water-quality data
- Measurements
- Annual Report

Inactive Sites
- Any data
- Instantaneous data
- Daily data
- Water-quality data
- Measurements
- Annual Report

Springs

Atmospheric Sites

Other Sites



Site Information

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

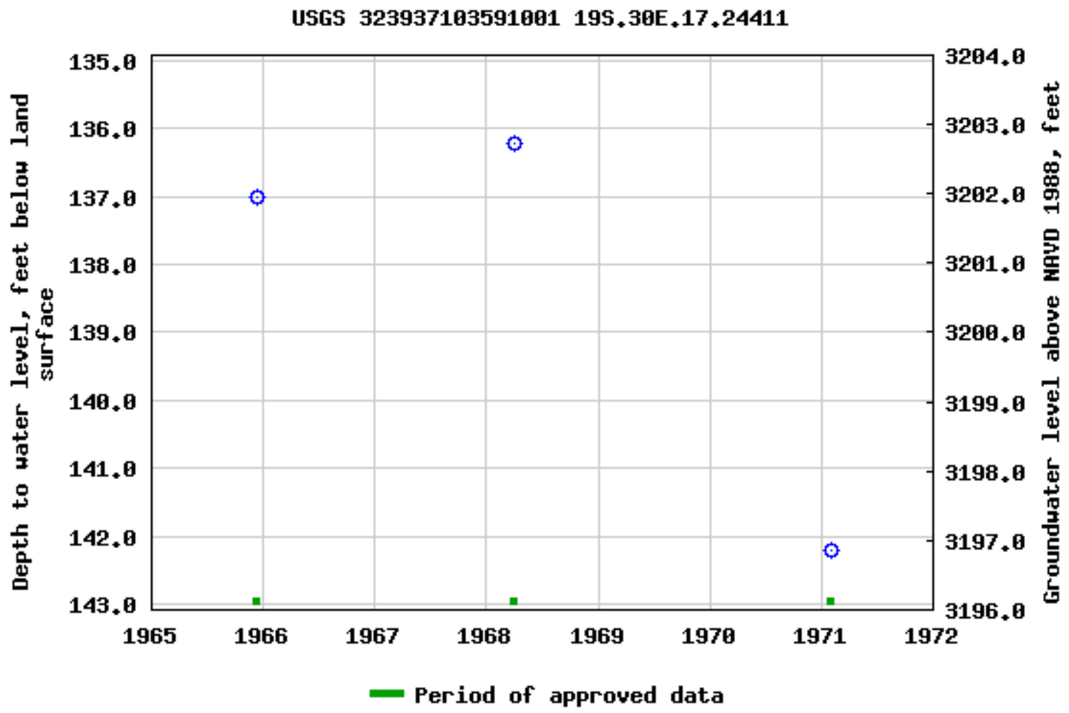
USGS 323937103591001 19S.30E.17.24411

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



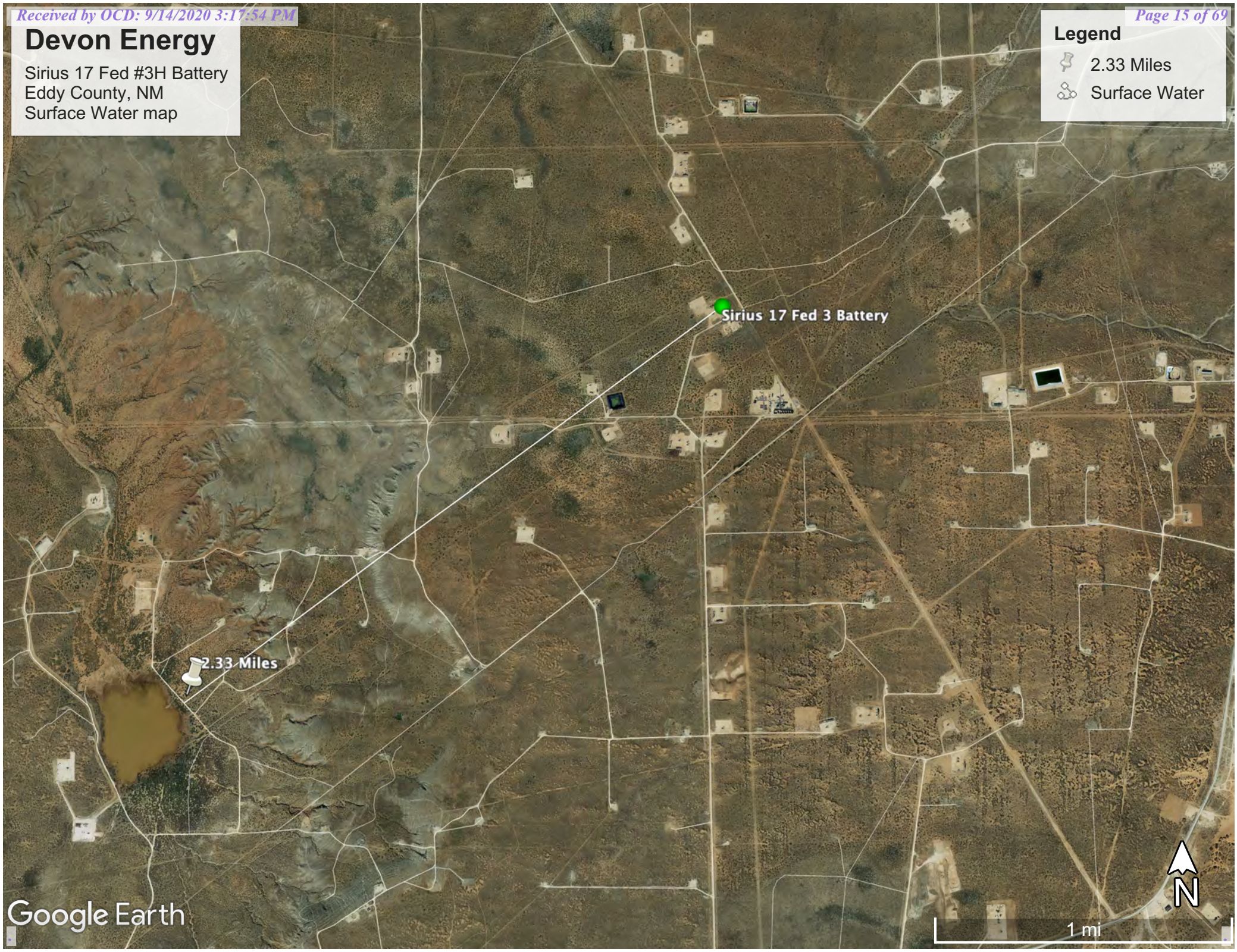
Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help

Data Tips
Explanation of terms
Subscribe for system changes
News

Devon Energy

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



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Appendix B
Soil Survey & Geological Data:
USDA
FEMA Flood Map

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

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

FEMA

103°54'13"W 32°39'47"N

103°53'36"W 32°39'17"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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.

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 19	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release 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? ☐ Yes ☒ 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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Chris Jones

Title: Environmental Professional

Signature: 

Date: 7-6-20

email: chris@pimaoil.com

Telephone: 575-964-7740

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM2019546745
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☐ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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: 9/8/2020

email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: 9/8/2020

email: tom.bynum@dvn.com Telephone: 575-748-2663

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: 9/8/2020

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:
Laboratory Results

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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-ll**	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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: **mbll** 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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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° 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? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				
2	3.6	Good				

Chain-of-Custody Record

Client: Pima

Mailing Address: 1601 N. Turner Ste 500
Hobbs, NM 88240

Phone #: 575-964-7740

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 24 hr * QC
☐ Standard ☒ Rush 48HR S1

Project Name: Sirius 17 Fed 3H Battery

Project #: WBS# 20874829

Project Manager: Chris Jones

Sampler: Robert Cooper

On Ice: ☒ Yes ☐ No

# of Coolers: 2 SR 7/8/20

Cooler Temp(including CF): 4.5-0=4.5 (°C) 3.6-0=3.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2007316	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
7/6/20		Soil	BG-1 0	JAR	ICE	-001	✓	✓									✓
			BG-2 0			-002											
			BG-3 0			-003											
			BG-4 0			-004											
			BG-5 0			-005											
			BG-6 0			-006											
			BG-7 0			-007											
			BG-8 0			-008											
			S-1 0-6			-009											
			S-1 1			-010											
			S-1 2			-011											
			S-1 3			-012											

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/7			acummings		7/7/20	1630
7/7/20	1900	acummings		courier	7/8/20	9:25

Remarks:
Devon Direct Bill
*24hr rush per Chris Jones

1 of 3

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

Chain-of-Custody Record

Client: Pima

Mailing Address: 1601 N. Turner St. 500
Hobbs NM 88240

Phone #: 575-964-7740

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 24 hr
☐ Standard ☑ Rush ~~48 Hour~~ ST

Project Name: Sirius 17 Fed 3H Battery

Project #: WBS# 20874829

Project Manager: Chris Jones

Sampler: Robert Carper

On Ice: ☑ Yes ☐ No

# of Coolers: +2 on 7/8/20

Cooler Temp(including CF): 4.5-0=4.5 (°C) 3.6-0=3.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2007316	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
7/2		Soil	S-2 0-6	3oz	Ice	-013	✓	✓									✓
			" 1			-014											
			" 2			-015											
			" 3			-016											
			S-3 0-6			-017											
			" 1			-018											
			" 2			-019											
			" 3			-020											
			S-4 0-6			-021											
			" 1			-022											
			" 2			-023											
			" 3			-024											

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/7			Acumming		7/7/20	1430
7/7/20	1900	Acumming		courier	7/8/20	9:25

Remarks: 24 hr rush per Chris Jones

2 of 3

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Chain-of-Custody Record

Client: Pima

Mailing Address: 1601 N. Turner Ste 500
Hobbs NM 88240

Phone #: 575-964-7740

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 24 hr.
☐ Standard ☑ Rush ~~48 HOUR~~ ST

Project Name: Sirius 17 Fed 3H Battery

Project #: WBS# 20874829

Project Manager: Chris Jones

Sampler: Robert Carper

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (2) 7/1/20

Cooler Temp(including CF): 4.5-0=4.5 (°C) 3.6-0=3.6

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4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2007316	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
7/6/20		Soil	S-5 0-6	Jar	Ice	-025	✓	✓									✓
"		"	" 1	"	"	-026	"	"									"
"		"	" 2	"	"	-027	"	"									"
"		"	" 3	"	"	-028	"	"									"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/7			CCummings		7/7/20	1030
7/7/20	1900	CCummings		courier	7/8/20	9:25

Remarks:
24 hr rush per Chris Jones

3 of 3

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