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**Elliott B Federal 6 & 8 Battery**

## **Closure Report**

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**API No. 30-025-10333**

**1RP-5262**

**Release Date: 10/29/2018**

**U/L A, SECTION 17, TOWNSHIP 22S, RANGE 37E**

**Lea County, New Mexico**

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**04/29/2020**

**Prepared by:**



**4024 Plains Highway**

**Lovington, NM 88260**

**Phone: (575) 390-6397**



April 29, 2020

New Mexico Energy, Minerals & Natural Resources  
NMOCD District II  
C/O Mike Bratcher, Robert Hamlet & Victoria Venegas  
811 S. First Street  
Artesia, NM 88210

Bureau of Land Management  
C/O Jim Amos  
620 E. Green Street  
Carlsbad, NM 88220

Grizzly Energy, LLC  
C/O Carmen Pitt  
4001 Penbrook, Suite 201  
Odessa, TX 79762

**Subject: Closure Request for Grizzly Energy, LLC – Elliott B Federal 6 & 8 Battery  
API No. 30-025-10333  
U/L A, Section 17, Township 22S, Range 37E**

To Whom It May Concern:

On behalf of Grizzly Energy, LLC, Hungry Horse, LLC (HH) has prepared this CLOSURE REPORT that describes the assessment, delineation and remediation for the release associated with the Elliott B Federal 6 & 8 Battery, dated 10/29/2018 with the RP# 1RP-5262.

## **BACKGROUND**

The site is located in Lea County, New Mexico. The release was located on or before October 29<sup>th</sup>, 2018. The release was due to a bad seal in a victaulic coupling located on the line running from the oil tank to the circulating pump. The release was inside of the containment. Approximately 82bbls of oil was

released. A vacuum truck was dispatched to the location and removed approximately 80bbls of oil from the containment and placed back into the oil tanks. The corresponding C-141 for the release is attached.

## GROUND WATER INFORMATION

Hungry Horse, LLC conducted a ground water study of this area. It has been determined that according to the New Mexico Office of the State Engineer, the depth of ground water is 73'bgs (below ground surface). The top three closest wells to the site area are listed below:

CP 00479 – Well is 312' from the site and no ground water is recorded

CP 01353 POD1 – Well is 738' from the site and depth to ground water is 73'bgs

CP 00871 – Well is 852' from the site and depth to ground water is 94'bgs

With the data collected during the groundwater research protocol, there is verifiable records of ground water in the vicinity to the site as detailed herein. Specific water data is shown in the ground water section of this report. Therefore, there is no eminent danger of groundwater impact found at this site.

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

The Closure Criteria for Soils Impacted by Release above, based on ground water depth of 73'bgs, which falls under the 51' – 100' depth category. Therefore, the site was fully delineated according to the above closure criteria. Please see the attached ground water data and map.

## KARST MAPPING

The Karst Mapping Data found for this site is located inside the low karst area in green. When the site was delineated, it was fully delineated to meet the NMOCD and BLM standards for Karst areas. Please see the Karst Map that is attached herein.

## SITE DELINEATION

Hungry Horse, LLC fully delineated the site vertically and horizontally starting on December 4<sup>th</sup>, 2019. The site was assessed, measured and photographed. After the One-Call was cleared, delineation proceeded. Soil was field tested for chlorides using the titration method recommended by the NMOCD. A PID meter was used to indicate concentrations of BTEX in the soil as well. Soil samples were taken from ten sample points within the impacted area within the containment. The area was sampled by use of a hand auger and a mini-track-hoe using 2' intervals for each sample point. All of the samples were sent to Envirotech Laboratory for confirmation. In the below table you will see the data that represents the vertical delineation samples and the Laboratory confirmed concentration levels. \*\*Please see the sample trending data sheet attached to this report for more information.

Ver Sam ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-Dro mg/kg	Ttl TPH mg/kg
SP 1	8'	ND	ND	ND	58.8	ND	58.8
SP 2	16'	ND	32.72	352	7500	853	8705
SP 3	6'	340	ND	ND	181	217	398
SP 4	10'	ND	0.3965	ND	880	189	1069
SP 5	12'	ND	ND	ND	110	ND	110
SP 6	12'	26.9	ND	ND	258	206	722
SP 7	12'	ND	ND	ND	131	54.1	185
SP 8	10'	ND	ND	ND	255	74.6	330
SP 9	10'	ND	0.231	ND	1160	226	1386
SP 10	10'	ND	5.45	97.5	2800	558	3456

Horizontal samples were then conducted to find the horizontal extent of the impacted area within the containment. Six side wall samples were obtained, sampled in the field and then sent to Envirotech Laboratory for confirmation. Below you will find the confirmation data. \*\*Please see the sample trending data sheet attached to this report for more information.

Hor Sam ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-Dro mg/kg	Ttl TPH mg/kg
SW 1	2'	ND	ND	ND	ND	ND	ND
SW 2	2'	ND	ND	ND	ND	ND	ND
SW 3	2'	ND	ND	ND	31.9	ND	ND
SW 4	2'	ND	ND	ND	ND	ND	ND
SW 5	2'	ND	ND	ND	53.6	68.4	122
SW 6	2'	ND	ND	ND	ND	ND	ND

## REMEDIATION

Due to the nature of this release, it was determined that 1' inside the containment would need to be excavated out and backfilled with clean soil, to avoid compromising the integrity of the tanks, vessels and lines inside the facility. During the excavation phase, approximately 186 cubic yards of

contaminated material was hauled out to Lea Landfill for disposal. Approximately 222 cubic yards of clean topsoil was hauled in for the backfill.

On December 31<sup>st</sup>, 2019 an email was sent to NMOCD to request witness to final closure samples. On January 3<sup>rd</sup>, 2020 bottom hole composite samples were obtained. The below two composite group sampling was conducted, from inside the containment, these samples were sampled in the field, tested for chlorides by use of the Titration Method and PID Meter to test for volatiles in the soil then sent to Envirotech Laboratory for confirmation. The composite samples were split due to size of the facility (Composite I and Composite II). Four sidewall samples were then obtained of the berm area. Below you will find the confirmation sample data provided by Envirotech. \*\*Please see the sample trending data sheet attached to this report for more information.

Closure ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-Dro mg/kg	Ttl TPH mg/kg
Comp 1		ND	0.8995	54.7	5810	1150	7015
Comp 2		ND	3.95	90.9	6340	1200	7630
SW WEST	2'	ND	ND	ND	ND	ND	ND
SW NORTH	2'	ND	ND	ND	ND	ND	ND
SW EAST	2'	ND	ND	ND	573	570	1143
SW SOUTH	2'	ND	ND	ND	126	63.1	189

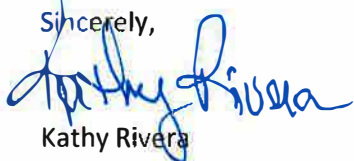
## SCOPE AND LIMITATIONS

The scope of our services consisted of the performance of the assessment sampling, vertical and horizontal of the release stabilization, removal of impacted material, backfilling the site, regulatory liaison and preparation of this closure report. All work has been done in accordance with the NMOCD Rules and Regulations for Spills and Releases dated August 14, 2018. With the remediation activities that have taken place for this release herein, Grizzly Energy requests to postpone additional remediation efforts in the deferral area of the facility until any future site alterations or final abandonment activities occur. Hungry Horse and Grizzly do not believe deferment will result in imminent risk to human health, the environment or to groundwater. The majority of the impacted soil material has been excavated and transported off-site for disposal.

On behalf of Grizzly Energy, LLC and Hungry Horse, LLC, we respectfully request closure of this release associated with the Elliott B Federal 6 & 8 Battery. Hungry Horse, LLC, and Grizzly Energy request no further action for this release described herein.

If you have concerns or questions please direct them to Natalie Gladden, Director of Environmental and Regulatory Services, Hungry Horse, LLC. She can be reached via cell phone at (575) 390-6397 or via email at [ngladden@hungry-horse.com](mailto:ngladden@hungry-horse.com).

Sincerely,



Kathy Rivera

Project Manager

Hungry Horse, LLC

4024 Plains Highway

Lovington, NM 88260

Cell: (575) 441-4374

Email: [krivera@hungry-horse.com](mailto:krivera@hungry-horse.com)

Attachments:

Initial C-141 and COA

Site Map

Karst Map

Groundwater Data and Map

Sample Point Map

ARC GIS Sample Map

Sample Data Log

Laboratory Analytical Data

Before, During and After Photos

Final C-141

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa 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	NOY1831236288
District RP	1RP-5262
Facility ID	
Application ID	pOY1831236854

## Release Notification

### Responsible Party

Responsible Party Vanguard Operating, LLC	OGRID 258350
Contact Name Brent White	Contact Telephone 505-918-0669
Contact email bwhite@vnrenergy.com	Incident # (assigned by OCD) NOY1831236288
Contact mailing address 4001 Penbrooke Suite 201 Odessa, TX 79762	

### Location of Release Source

Latitude 32.3972855 Longitude -103.178627  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Elliot B Federal 6 & 8 Battery	Site Type Tank Battery
Date Release Discovered 10-29-2018	API# 30-025-10333

Unit Letter	Section	Township	Range	County
A	17	22S	37E	Lea

Federal minerals

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 82	Volume Recovered (bbls) 80
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

The oil leaked from a bad seal in a Victaulic coupling located on the line running from the oil tank to the circulating pump. The spill was inside of the containment. A vacuum truck removed 80 bbls of oil from the containment and placed back into the oil tank.

TRC will begin sampling inside of the berm.

State of New Mexico  
Oil Conservation Division

Incident ID	NOY1831236288
District RP	1RP-5262
Facility ID	
Application ID	pOY1831236854

Was this a major release as defined by 19.15.29.7(A) NMAC?  X Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes by Chuck Johnston to Olivia Yu, Christina Hernandex and Jim Griswold October 30, 2018 4:13 pm email.	

### Initial Response

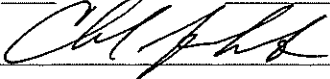
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ 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: Chuck Johnston Title: EHS Operations Specialist  
Signature:  Date: 11-6-2018  
email: cjohnston@vnrenergy.com Telephone: 432-202-4771


#### OCD Only

Received by: **RECEIVED**  
By Olivia Yu at 10:12 am, Nov 08, 2018 Date: \_\_\_\_\_



**Legend**

 Elliott B Federal 6 & 8 Battery

 Elliott B Federal 6 & 8 Battery



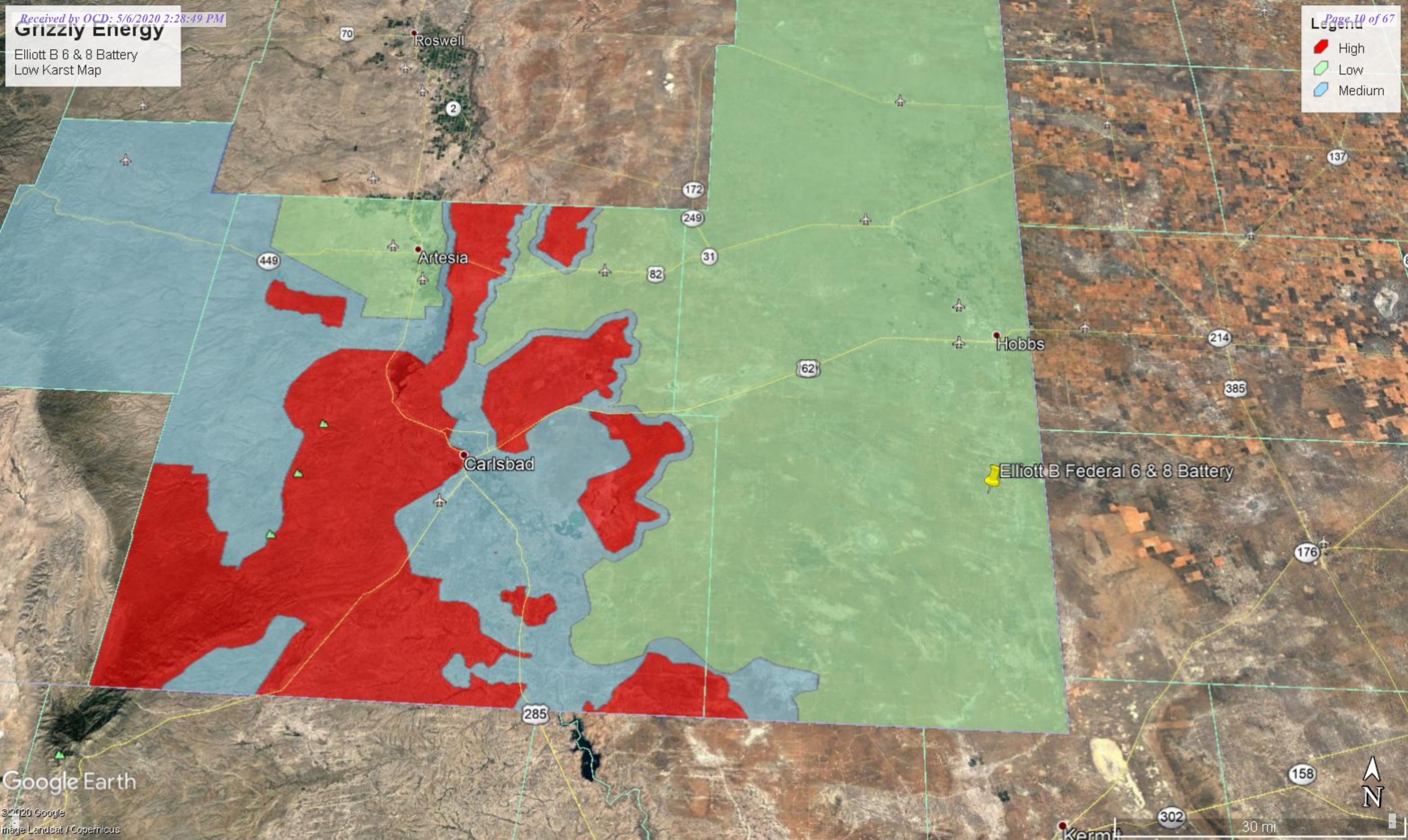


**Grizzly Energy**

Elliott B 6 & 8 Battery  
Low Karst Map

**Legend**

- High
- Low
- Medium







# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 01353	POD1	3	1	3	09	22S	37E	671514	3586640

<b>Driller License:</b> 1292	<b>Driller Company:</b> BENTLE WATER WELL SERVICE	
<b>Driller Name:</b> BENTLE, BILLY L.		
<b>Drill Start Date:</b> 05/04/2015	<b>Drill Finish Date:</b> 05/18/2015	<b>Plug Date:</b>
<b>Log File Date:</b> 05/28/2015	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 9 GPM
<b>Casing Size:</b> 6.00	<b>Depth Well:</b> 93 feet	<b>Depth Water:</b> 73 feet

Water Bearing Stratifications:	Top	Bottom	Description
	83	93	Other/Unknown

Casing Perforations:	Top	Bottom
	73	93




# 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)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 00871	3	09	22S	37E	671902	3586541* 

<b>Driller License:</b>	1044	<b>Driller Company:</b>	EADES WELL DRILLING & PUMP SERVICE	
<b>Driller Name:</b>	EADES, ALAN			
<b>Drill Start Date:</b>	09/29/1997	<b>Drill Finish Date:</b>	09/29/1997	<b>Plug Date:</b>
<b>Log File Date:</b>	11/04/1997	<b>PCW Rcv Date:</b>		<b>Source:</b> Shallow
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>
<b>Casing Size:</b>	5.75	<b>Depth Well:</b>	167 feet	<b>Depth Water:</b> 94 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	124	145	Sandstone/Gravel/Conglomerate
	145	164	Sandstone/Gravel/Conglomerate

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	147	167

\*UTM location was derived from PLSS - see Help

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



Grizzly Energy

Elliott B 6 & 8 Battery  
Ground Water Map



CP 01353 POD 1 - 738' FROM SITE - 73D GW

CP 00871 - 852' FROM SITE - 94D GW

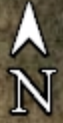
CP 00479 - 312' FROM SITE - NO GROUND WATER

Elliott B Federal 6 & 8 Battery

33

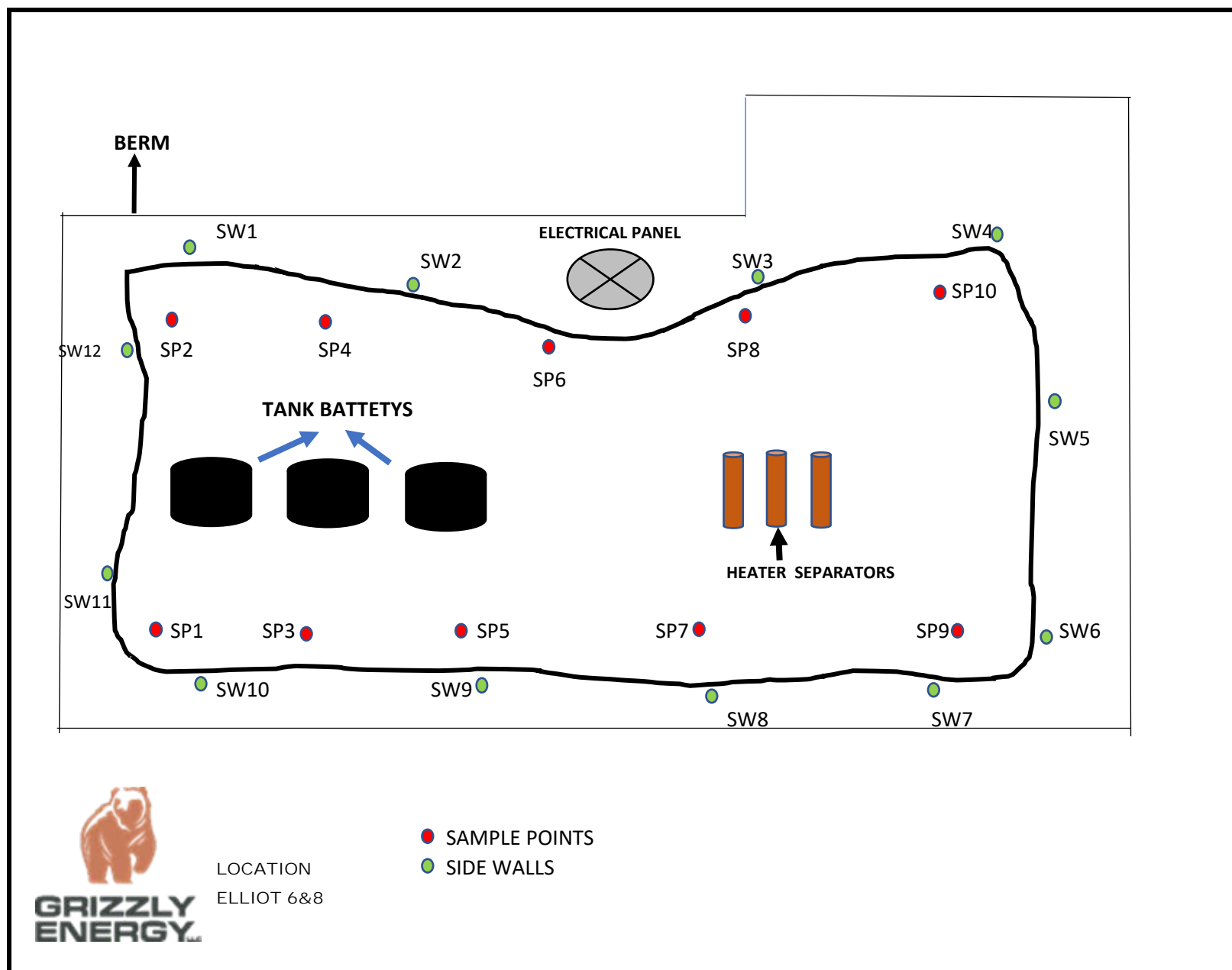
Delaware Basin Rd

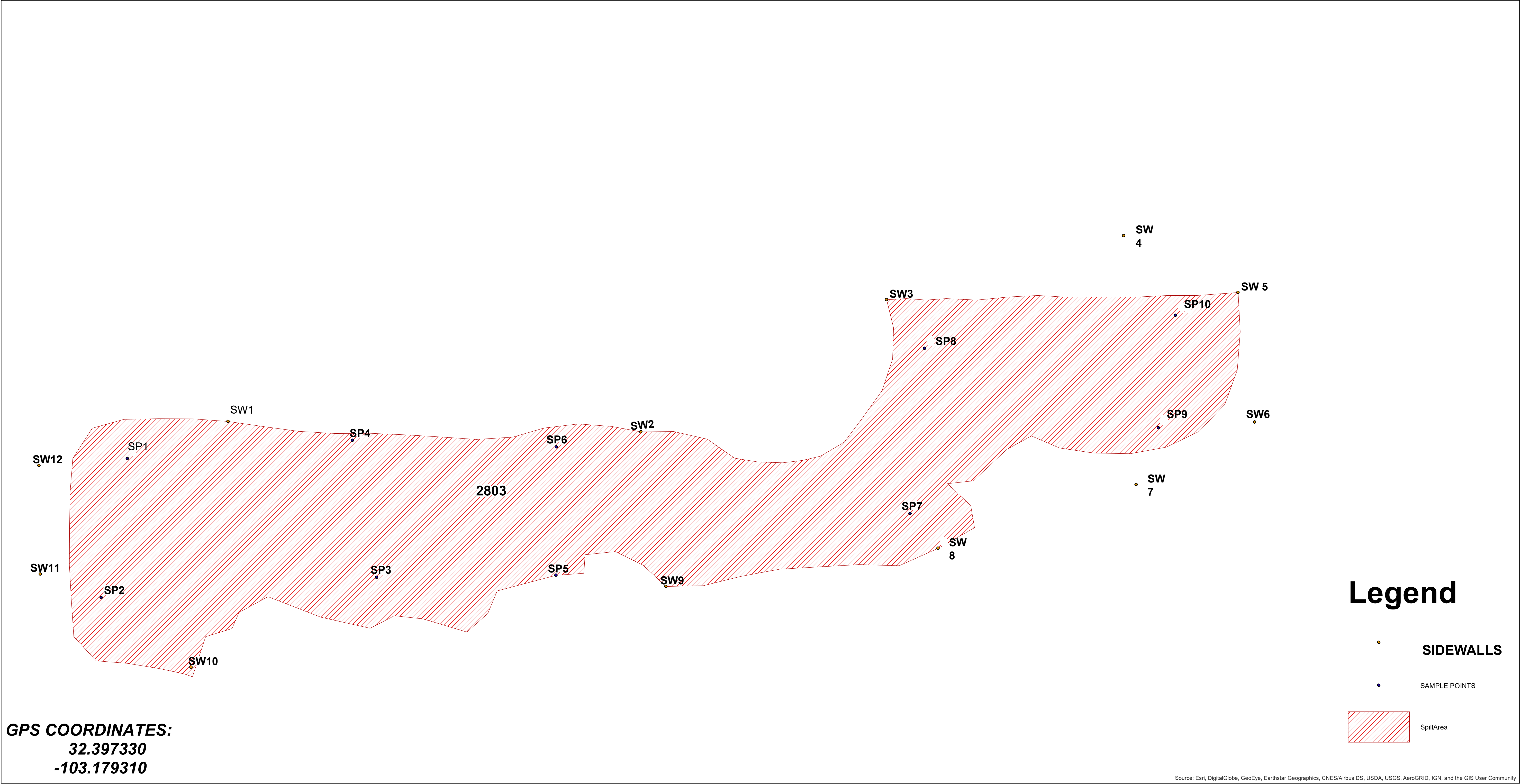
21



1000 ft








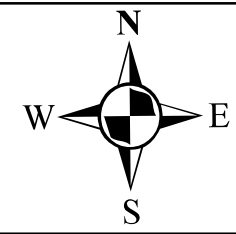

GRIZZLY ENERGY

ELLIOT 6&8 BATTERY



GRIZZLY ENERGY

FIGURE 1  
IMPACTED AREA

 	<b>Hungry Horse LLC.</b>
	DRAWN BY: EDDIE GAYTAN
	CHECKED BY: NATALIE GLADDEN
	DATE: APRIL 28, 2020

## VANGUARD - ELLIOTT B FEDERAL 6 & 8 BATTERY

[illegible]



[illegible]

[illegible]



## Analytical Report

### Report Summary

Client: Vanguard

Samples Received: 1/9/2020

Job Number: 19054-0003

Work Order: P001028

Project Name/Location: Elliott 6 & 8 Battery

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is placed over a light blue rectangular background.

Date: 1/10/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Vanguard	Project Name:	Elliott 6 & 8 Battery	<b>Reported:</b> 01/10/20 12:06
PO box 1058	Project Number:	19054-0003	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 1	P001028-01A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.
Comp 11	P001028-02A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.
SP6-10'	P001028-03A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.
SW-West 2'	P001028-04A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.
SW-North 2'	P001028-05A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.
SW-East 2'	P001028-06A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.
SW-South 2'	P001028-07A	Soil	01/03/20	01/09/20	Glass Jar, 4 oz.

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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**Comp 1**  
**P001028-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Ethylbenzene	<b>0.0495</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
p,m-Xylene	<b>0.226</b>	0.0500	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
o-Xylene	<b>0.624</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Total Xylenes	<b>0.849</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: Bromofluorobenzene		101 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>5810</b>	125	mg/kg	5	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>1150</b>	250	mg/kg	5	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		133 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	<b>54.7</b>	20.0	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: Bromofluorobenzene		101 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**Comp 11**  
**P001028-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Toluene	<b>0.0835</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Ethylbenzene	<b>0.670</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
p,m-Xylene	<b>2.14</b>	0.0500	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
o-Xylene	<b>1.06</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Total Xylenes	<b>3.20</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.5 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: Bromofluorobenzene		108 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>6340</b>	125	mg/kg	5	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>1200</b>	250	mg/kg	5	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		142 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	<b>90.9</b>	20.0	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.5 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: Bromofluorobenzene		108 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**SP6-10'**  
**P001028-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
o-Xylene	<b>0.700</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Total Xylenes	<b>0.700</b>	0.0250	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: Toluene-d8		108 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	
Surrogate: Bromofluorobenzene		110 %		70-130	2002029	01/08/20	01/10/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>6560</b>	125	mg/kg	5	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>2260</b>	250	mg/kg	5	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		135 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	<b>83.0</b>	20.0	mg/kg	1	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: Toluene-d8		108 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	
Surrogate: Bromofluorobenzene		110 %		70-130	2002029	01/08/20	01/10/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	<b>101</b>	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**SW-West 2'**  
**P001028-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Toluene-d8		97.3 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.0 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		90.4 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Toluene-d8		97.3 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.0 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**SW-North 2'**  
**P001028-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		111 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Toluene-d8		95.7 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.3 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		91.6 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		111 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Toluene-d8		95.7 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.3 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**SW-East 2'**  
**P001028-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Toluene-d8		97.7 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		90.9 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	573	250	mg/kg	10	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	570	500	mg/kg	10	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		108 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Toluene-d8		97.7 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		90.9 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**SW-South 2'**  
**P001028-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Toluene-d8		96.9 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		89.5 %		70-130	2002029	01/08/20	01/09/20	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>126</b>	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	<b>63.1</b>	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	2002032	01/09/20	01/09/20	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		105 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Toluene-d8		96.9 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		89.5 %		70-130	2002029	01/08/20	01/09/20	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	
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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

## Volatile Organic Compounds by 8260 - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 2002029 - Purge and Trap EPA 5030A

## Blank (2002029-BLK1)

Prepared: 01/08/20 1 Analyzed: 01/09/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.527		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.487		"	0.500		97.3	70-130			
Surrogate: Bromofluorobenzene	0.465		"	0.500		93.0	70-130			

## LCS (2002029-BS1)

Prepared: 01/08/20 1 Analyzed: 01/09/20 1

Benzene	2.71	0.0250	mg/kg	2.50	ND	108	70-130			
Toluene	2.58	0.0250	"	2.50	ND	103	70-130			
Ethylbenzene	2.58	0.0250	"	2.50	ND	103	70-130			
p,m-Xylene	5.28	0.0500	"	5.00	ND	106	70-130			
o-Xylene	2.53	0.0250	"	2.50	ND	101	70-130			
Total Xylenes	7.81	0.0250	"	7.50	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.505		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.489		"	0.500		97.8	70-130			

## Matrix Spike (2002029-MS1)

Source: P001025-01

Prepared: 01/08/20 1 Analyzed: 01/09/20 1

Benzene	2.67	0.0250	mg/kg	2.50	ND	107	48-131			
Toluene	2.57	0.0250	"	2.50	ND	103	48-130			
Ethylbenzene	2.54	0.0250	"	2.50	ND	102	45-135			
p,m-Xylene	5.25	0.0500	"	5.00	ND	105	43-135			
o-Xylene	2.51	0.0250	"	2.50	ND	101	43-135			
Total Xylenes	7.76	0.0250	"	7.50	ND	104	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.521		"	0.500		104	70-130			
Surrogate: Toluene-d8	0.501		"	0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		96.0	70-130			

## Matrix Spike Dup (2002029-MSD1)

Source: P001025-01

Prepared: 01/08/20 1 Analyzed: 01/09/20 2

Benzene	2.75	0.0250	mg/kg	2.50	ND	110	48-131	2.84	23	
Toluene	2.67	0.0250	"	2.50	ND	107	48-130	3.97	24	
Ethylbenzene	2.63	0.0250	"	2.50	ND	105	45-135	3.54	27	
p,m-Xylene	5.47	0.0500	"	5.00	ND	109	43-135	4.08	27	
o-Xylene	2.62	0.0250	"	2.50	ND	105	43-135	4.20	27	
Total Xylenes	8.09	0.0250	"	7.50	ND	108	43-135	4.12	27	
Surrogate: 1,2-Dichloroethane-d4	0.499		"	0.500		99.7	70-130			
Surrogate: Toluene-d8	0.504		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.485		"	0.500		97.0	70-130			

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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2002032 - DRO Extraction EPA 3570

##### Blank (2002032-BLK1)

Prepared: 01/09/20 0 Analyzed: 01/09/20 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

##### LCS (2002032-BS1)

Prepared: 01/09/20 0 Analyzed: 01/09/20 2

Diesel Range Organics (C10-C28)	511	25.0	mg/kg	500		102	38-132			
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			

##### Matrix Spike (2002032-MS1)

Source: P001027-01

Prepared: 01/09/20 0 Analyzed: 01/09/20 2

Diesel Range Organics (C10-C28)	612	25.0	mg/kg	500	52.8	112	38-132			
Surrogate: n-Nonane	60.1		"	50.0		120	50-200			

##### Matrix Spike Dup (2002032-MSD1)

Source: P001027-01

Prepared: 01/09/20 0 Analyzed: 01/09/20 2

Diesel Range Organics (C10-C28)	631	25.0	mg/kg	500	52.8	116	38-132	3.10	20	
Surrogate: n-Nonane	60.5		"	50.0		121	50-200			

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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

## Nonhalogenated Organics by 8015 - GRO - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 2002029 - Purge and Trap EPA 5030A

## Blank (2002029-BLK1)

Prepared: 01/08/20 1 Analyzed: 01/09/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.527		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.487		"	0.500		97.3	70-130			
Surrogate: Bromofluorobenzene	0.465		"	0.500		93.0	70-130			

## LCS (2002029-BS2)

Prepared: 01/08/20 1 Analyzed: 01/09/20 1

Gasoline Range Organics (C6-C10)	46.2	20.0	mg/kg	50.0		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.505		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.1	70-130			

## Matrix Spike (2002029-MS2)

Source: P001025-01

Prepared: 01/08/20 1 Analyzed: 01/09/20 2

Gasoline Range Organics (C6-C10)	43.6	20.0	mg/kg	50.0	ND	87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.502		"	0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.476		"	0.500		95.2	70-130			

## Matrix Spike Dup (2002029-MSD2)

Source: P001025-01

Prepared: 01/08/20 1 Analyzed: 01/09/20 2

Gasoline Range Organics (C6-C10)	42.5	20.0	mg/kg	50.0	ND	85.0	70-130	2.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130			
Surrogate: Bromofluorobenzene	0.473		"	0.500		94.6	70-130			

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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

**Anions by 300.0/9056A - Quality Control****Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2002034 - Anion Extraction EPA 300.0/9056A****Blank (2002034-BLK1)**

Prepared &amp; Analyzed: 01/09/20 0

Chloride	ND	20.0	mg/kg							
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**LCS (2002034-BS1)**

Prepared: 01/09/20 0 Analyzed: 01/09/20 1

Chloride	249	20.0	mg/kg	250		99.5	90-110			
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**Matrix Spike (2002034-MS1)****Source: P001026-01**

Prepared: 01/09/20 0 Analyzed: 01/09/20 1

Chloride	1340	20.0	mg/kg	250	1110	92.4	80-120			
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**Matrix Spike Dup (2002034-MSD1)****Source: P001026-01**

Prepared: 01/09/20 0 Analyzed: 01/09/20 1

Chloride	1240	20.0	mg/kg	250	1110	53.2	80-120	7.58	20	M2
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**QC Summary Report****Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Vanguard	Project Name:	Elliott 6 & 8 Battery	
PO box 1058	Project Number:	19054-0003	<b>Reported:</b>
Hobbs NM, 88240	Project Manager:	Natalie Gladden	01/10/20 12:06

### Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: <u>Vanguard</u>					Report Attention					Lab Use Only					TAT		EPA Program																								
Project: <u>211044 4+8 Battery</u>					Report due by: <u>2-10-20</u>					Lab WO# <u>P001028</u>					Job Number <u>19054-0003</u>					1D	3D	RCRA	CWA	SDW																	
Project Manager: <u>Fabian Franco</u>					Attention: <u>Kathleen Gladden</u>					Analysis and Method										State																					
Address:					Address: <u>4024 Plains Hwy</u>															NM				CO	UT	AZ															
City, State, Zip					City, State, Zip <u>Los Alamos, NM 87601</u>					DRO/ORO by 8015				GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Chloride 300.0				TCEQ 1005				BGDOC - NM				BGDOC - TX			
Phone:					Phone: <u>505-340-6397</u>					Remarks																															
Email:					Email: <u>ngladden@hugoboy-horse.com</u>																																				

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
7:45	1/3/20	S	1	Comp 1	1							X		
9:15	1/3/20		1	Comp 11	2							X		
11:15	1/3/20		1	SPL - 10'	3							X		
2:05	1/3/20		1	SW - west 2'	4							X		
2:20	1/3/20		1	SW - North 2'	5							X		
2:42	1/3/20		1	SW - East 2'	6							X		
3:10	1/3/20		1	SW - South 2'	7							X		

## Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Kathleen Gladden</u>	1/7/20		<u>Raina Lopez</u>	1-8-2020	1030	
<u>Raina Lopez</u>	1-8-2020	1500		1/9/20	9:30	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



## Analytical Report

### Report Summary

Client: Grizzly Energy

Samples Received: 12/21/2019

Job Number: 19054-0003

Work Order: P912073

Project Name/Location: Elliot B Battery 6-8

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 12/24/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.  
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.  
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Grizzly Energy  
4001 Penbrook Suite 201  
Odessa TX, 79762

Project Name: Elliot B Battery 6-8  
Project Number: 19054-0003  
Project Manager: Lindsey Salgado

**Reported:**  
12/24/19 11:25

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-8'	P912073-01A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP2-16'	P912073-02A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP3-6'	P912073-03A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP4-10'	P912073-04A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP5-12'	P912073-05A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP6-12'	P912073-06A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP7-12'	P912073-07A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP8-10'	P912073-08A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP9-10'	P912073-09A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SP10-10'	P912073-10A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SW1-2'	P912073-11A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SW2-2'	P912073-12A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SW3'-2'	P912073-13A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SW4-2'	P912073-14A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SW5-2'	P912073-15A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.
SW6-2'	P912073-16A	Soil	12/19/19	12/21/19	Glass Jar, 4 oz.

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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP1-8'**  
**P912073-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.0 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	58.8	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		96.3 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.0 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP2-16'**  
**P912073-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	<b>0.764</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	<b>2.76</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	<b>10.6</b>	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	<b>4.00</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	<b>14.6</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		119 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>7500</b>	50.0	mg/kg	2	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>853</b>	100	mg/kg	2	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		208 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	S3

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	<b>352</b>	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		119 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP3-6'**  
**P912073-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.4 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>181</b>	25.0	mg/kg	1	1951051	12/21/19	12/24/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>217</b>	50.0	mg/kg	1	1951051	12/21/19	12/24/19	EPA 8015D	
Surrogate: n-Nonane		115 %		50-200	1951051	12/21/19	12/24/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.4 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	<b>340</b>	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP4-10'**  
**P912073-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	<b>0.0300</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	<b>0.115</b>	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	<b>0.0685</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	<b>0.183</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>880</b>	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>189</b>	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		116 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP5-12'**  
**P912073-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		99.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	110	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		97.9 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		99.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP6-12'**  
**P912073-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.5 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>258</b>	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>206</b>	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.5 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	<b>26.9</b>	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SP7-12'**  
**P912073-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.0 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		99.5 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>131</b>	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>54.1</b>	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		98.9 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.0 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		99.5 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

**SP8-10'**  
**P912073-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		92.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	255	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	74.6	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		117 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		92.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

**SP9-10'**  
**P912073-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	<b>0.0340</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	<b>0.0570</b>	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	<b>0.0415</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	<b>0.0985</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		99.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>1160</b>	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>226</b>	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		119 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.2 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		99.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

**SP10-10'**  
**P912073-10 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	<b>0.192</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	<b>1.24</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	<b>2.84</b>	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	<b>1.18</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	<b>4.02</b>	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		105 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>2800</b>	50.0	mg/kg	2	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>558</b>	100	mg/kg	2	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		146 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	<b>97.5</b>	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		105 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SW1-2'**  
**P912073-11 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		99.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		99.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		99.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		99.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SW2-2'**  
**P912073-12 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		99.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		99.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

**SW3'-2'**  
**P912073-13 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	31.9	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		96.4 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.7 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SW4-2'**  
**P912073-14 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		95.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/23/19	EPA 8015D	
Surrogate: n-Nonane		99.1 %		50-200	1951051	12/21/19	12/23/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		95.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.8 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SW5-2'**  
**P912073-15 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>53.6</b>	25.0	mg/kg	1	1951051	12/21/19	12/24/19	EPA 8015D	
Oil Range Organics (C28-C40)	<b>68.4</b>	50.0	mg/kg	1	1951051	12/21/19	12/24/19	EPA 8015D	
Surrogate: n-Nonane		92.0 %		50-200	1951051	12/21/19	12/24/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.6 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		98.3 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

**SW6-2'**  
**P912073-16 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organic Compounds by 8260**

Benzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8260B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1951051	12/21/19	12/24/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1951051	12/21/19	12/24/19	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	1951051	12/21/19	12/24/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Toluene-d8		101 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.9 %		70-130	1951049	12/21/19	12/22/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1951053	12/21/19	12/23/19	EPA 300.0/9056A	
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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

## Volatile Organic Compounds by 8260 - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 1951049 - Purge and Trap EPA 5030A

## Blank (1951049-BLK1)

Prepared: 12/21/19 1 Analyzed: 12/22/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130			
Surrogate: Bromofluorobenzene	0.474		"	0.500		94.7	70-130			

## LCS (1951049-BS1)

Prepared: 12/21/19 1 Analyzed: 12/22/19 1

Benzene	2.04	0.0250	mg/kg	2.50		81.8	70-130			
Toluene	2.04	0.0250	"	2.50		81.6	70-130			
Ethylbenzene	2.12	0.0250	"	2.50		84.6	70-130			
p,m-Xylene	4.06	0.0500	"	5.00		81.2	70-130			
o-Xylene	2.04	0.0250	"	2.50		81.4	70-130			
Total Xylenes	6.09	0.0250	"	7.50		81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		98.9	70-130			
Surrogate: Toluene-d8	0.503		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		99.0	70-130			

## Matrix Spike (1951049-MS1)

Source: P912073-01

Prepared: 12/21/19 1 Analyzed: 12/22/19 2

Benzene	2.33	0.0250	mg/kg	2.50	ND	93.4	48-131			
Toluene	2.32	0.0250	"	2.50	ND	92.9	48-130			
Ethylbenzene	2.44	0.0250	"	2.50	ND	97.4	45-135			
p,m-Xylene	4.64	0.0500	"	5.00	ND	92.8	43-135			
o-Xylene	2.31	0.0250	"	2.50	ND	92.5	43-135			
Total Xylenes	6.95	0.0250	"	7.50	ND	92.7	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.499		"	0.500		99.7	70-130			
Surrogate: Toluene-d8	0.503		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.500		"	0.500		100	70-130			

## Matrix Spike Dup (1951049-MSD1)

Source: P912073-01

Prepared: 12/21/19 1 Analyzed: 12/22/19 2

Benzene	2.31	0.0250	mg/kg	2.50	ND	92.2	48-131	1.23	23	
Toluene	2.31	0.0250	"	2.50	ND	92.2	48-130	0.778	24	
Ethylbenzene	2.41	0.0250	"	2.50	ND	96.2	45-135	1.24	27	
p,m-Xylene	4.61	0.0500	"	5.00	ND	92.2	43-135	0.660	27	
o-Xylene	2.30	0.0250	"	2.50	ND	92.2	43-135	0.347	27	
Total Xylenes	6.91	0.0250	"	7.50	ND	92.2	43-135	0.555	27	
Surrogate: 1,2-Dichloroethane-d4	0.497		"	0.500		99.3	70-130			
Surrogate: Toluene-d8	0.509		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.503		"	0.500		101	70-130			

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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1951051 - DRO Extraction EPA 3570

##### Blank (1951051-BLK1)

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	42.5		"	50.0		85.0	50-200			

##### LCS (1951051-BS1)

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Diesel Range Organics (C10-C28)	468	25.0	mg/kg	500		93.5	38-132			
Surrogate: n-Nonane	46.0		"	50.0		92.0	50-200			

##### Matrix Spike (1951051-MS1)

Source: P912073-01

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Diesel Range Organics (C10-C28)	518	25.0	mg/kg	500	58.8	91.9	38-132			
Surrogate: n-Nonane	47.1		"	50.0		94.3	50-200			

##### Matrix Spike Dup (1951051-MSD1)

Source: P912073-01

Prepared: 12/21/19 1 Analyzed: 12/24/19 1

Diesel Range Organics (C10-C28)	518	25.0	mg/kg	500	58.8	91.8	38-132	0.0859	20	
Surrogate: n-Nonane	47.5		"	50.0		95.0	50-200			

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Grizzly Energy	Project Name:	Elliot B Battery 6-8	<b>Reported:</b> 12/24/19 11:25
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

## Nonhalogenated Organics by 8015 - GRO - Quality Control

## Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch 1951049 - Purge and Trap EPA 5030A

## Blank (1951049-BLK1)

Prepared: 12/21/19 1 Analyzed: 12/22/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130			
Surrogate: Bromofluorobenzene	0.474		"	0.500		94.7	70-130			

## LCS (1951049-BS2)

Prepared: 12/21/19 1 Analyzed: 12/22/19 1

Gasoline Range Organics (C6-C10)	52.7	20.0	mg/kg	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.6	70-130			
Surrogate: Toluene-d8	0.509		"	0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.489		"	0.500		97.7	70-130			

## Matrix Spike (1951049-MS2)

Source: P912073-01

Prepared: 12/21/19 1 Analyzed: 12/23/19 0

Gasoline Range Organics (C6-C10)	50.9	20.0	mg/kg	50.0	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		"	0.500		96.2	70-130			
Surrogate: Toluene-d8	0.500		"	0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.499		"	0.500		99.8	70-130			

## Matrix Spike Dup (1951049-MSD2)

Source: P912073-01

Prepared: 12/21/19 1 Analyzed: 12/23/19 0

Gasoline Range Organics (C6-C10)	54.7	20.0	mg/kg	50.0	ND	109	70-130	7.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.507		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.491		"	0.500		98.1	70-130			

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Grizzly Energy	Project Name:	Elliot B Battery 6-8	
4001 Penbrook Suite 201	Project Number:	19054-0003	<b>Reported:</b>
Odessa TX, 79762	Project Manager:	Lindsey Salgado	12/24/19 11:25

**Anions by 300.0/9056A - Quality Control****Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1951053 - Anion Extraction EPA 300.0/9056A****Blank (1951053-BLK1)**

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Chloride	ND	20.0	mg/kg							
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**LCS (1951053-BS1)**

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Chloride	246	20.0	mg/kg	250		98.6	90-110			
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**Matrix Spike (1951053-MS1)****Source: P912073-01**

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Chloride	250	20.0	mg/kg	250	ND	99.8	80-120			
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**Matrix Spike Dup (1951053-MSD1)****Source: P912073-01**

Prepared: 12/21/19 1 Analyzed: 12/23/19 1

Chloride	250	20.0	mg/kg	250	ND	99.9	80-120	0.0401	20	
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**QC Summary Report****Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762	Project Name: Elliot B Battery 6-8 Project Number: 19054-0003 Project Manager: Lindsey Salgado	<b>Reported:</b> 12/24/19 11:25
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### Notes and Definitions

S3 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Page 57 of 67  
Received by OCD: 5/6/2020 2:28:49 PM

Chain of Custody

2D

Client: <u>Grizzly</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>Elbow B. Battery Leach</u>		Report due by: <u>12/24</u>		Lab WO# <u>P912073</u>		Job Number <u>19054.0003</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>Lindsey Salgado</u>		Attention: <u>Natalie Gladden</u>		Address:		Analysis and Method		State				
Address: <u>PO Box 1058</u>		Address:		City, State, Zip		DRO/ORO by 8015		NM				
City, State, Zip: <u>Hobbs NM</u>		City, State, Zip		Phone:		GRO/DRO by 8015		CO				
Phone: <u>432 241 2480</u>		Phone:		Email: <u>Ngladden@hungry-horse.com</u>		BTEX by 8021		UT				
Email: <u>LSalgado@hungry-horse.com</u>		Email: <u>Ngladden@hungry-horse.com</u>				VOC by 8260		AZ				

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	Remarks
8:00	12-19-19	S	1	Sp1-8'	1	X	X	X		X				
11:31	12-19-19			Sp2-16'	2	X	X	X		X				
1:37	12-19-19			Sp3-6'	3	X	X	X		X				
8:31	12-19-19			Sp4-10'	4	X	X	X		X				
11:07	12-19-19			Sp5-12'	5	X	X	X		X				
1:37	12-19-19			Sp6-12'	6	X	X	X		X				
2:03	12-19-19			Sp7-12'	7	X	X	X		X				
3:37	12-19-19			Sp8-10'	8	X	X	X		X				
1:15	12-19-19			Sp9-10'	9	X	X	X		X				
3:40	12-19-19			Sp10-10'	10	X	X	X		X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<u>[Signature]</u>	<u>12-20-19</u>	<u>1440</u>	<u>[Signature]</u>	<u>12-20-19</u>	<u>1440</u>	Received on ice: Y / <u>N</u>		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
<u>Fed Ex</u>	<u>12-21-19</u>	<u>10:23</u>	<u>[Signature]</u>	<u>12-21-19</u>	<u>10:23</u>	AVG Temp °C <u>4</u>		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

# Chain of Custody

2D

Client: <u>Grizzly</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>Giliot B Battery</u>		Report due by: <u>Natalie Aladden</u>		Lab WO# <u>P9/2073</u>		Job Number <u>17054-0003</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>Lindsey Salgado</u>		Attention:										
Address: <u>PO Box 1058</u>		Address:										
City, State, Zip		City, State, Zip										
Phone: <u>43224112480</u>		Phone:										
Email: <u>lsalgado@hungry-horse.com</u>		Email: <u>Naladden@hungry-horse.com</u>										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005	BGDOC - NM	BGDOC - TX	State	Remarks
3:31	12-19-19	S	1	SW1-2'	11	✓	✓	✓		✓				NM	
4:00	12-19-19			SW2-2'	12	✓	✓	✓		✓				CO	
4:11	12-19-19			SW3-2'	13	✓	✓	✓		✓				UT	
2:07	12-19-19			SW4-2'	14	✓	✓	✓		✓				AZ	
2:27	12-19-19			SW5-2'	15	✓	✓	✓		✓					
4:13	12-19-19			SW6-2'	16	✓	✓	✓		✓					

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

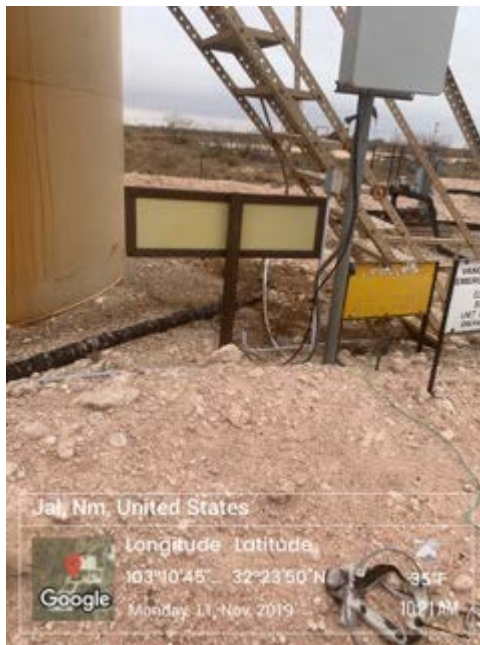
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>12-20-19</u>	Time <u>1440</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>12-20-19</u>	Time <u>1440</u>	<b>Lab Use Only</b> Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>12-21-19</u>	Time <u>10:23</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>12-21-19</u>	Time <u>10:23</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



**ELLIOT B FEDERAL 6 & 8 BATTERY – RELEASE DATE 10/29/2018  
BEFORE PHOTOS**



Jal, Nm, United States

Longitude	Latitude
103°10'45"	32°23'50" N

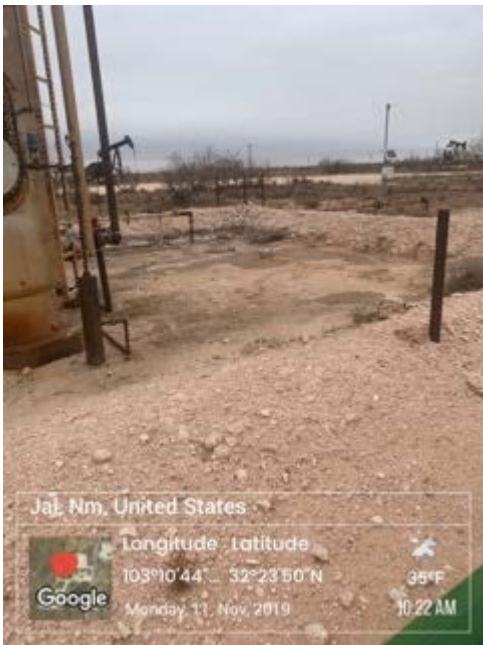
Google

Monday, 11 Nov 2019 10:21 AM

95°F

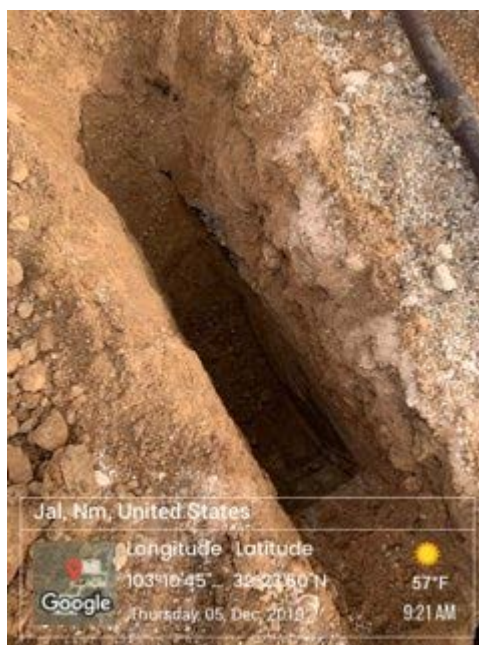




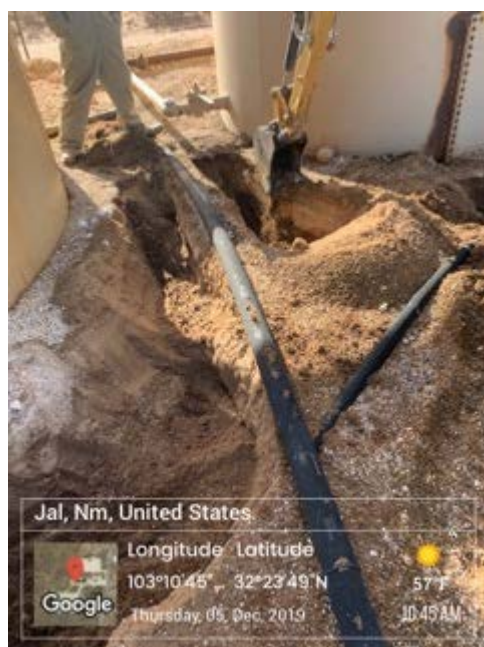
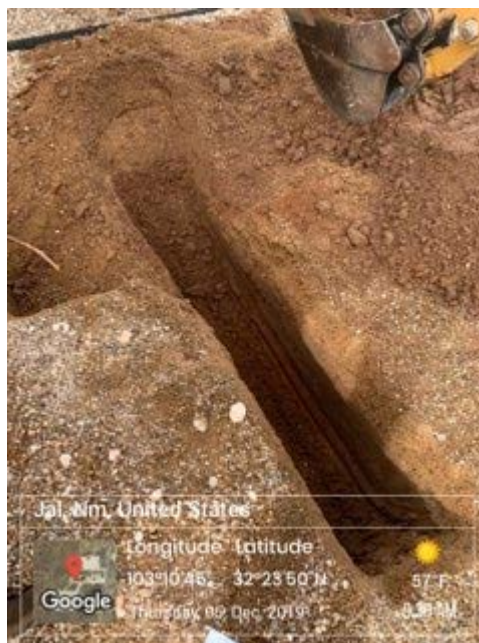




**ELLIOT B FEDERAL 6 & 8 BATTERY – RELEASE DATE 10/29/2018  
DURING PHOTOS**









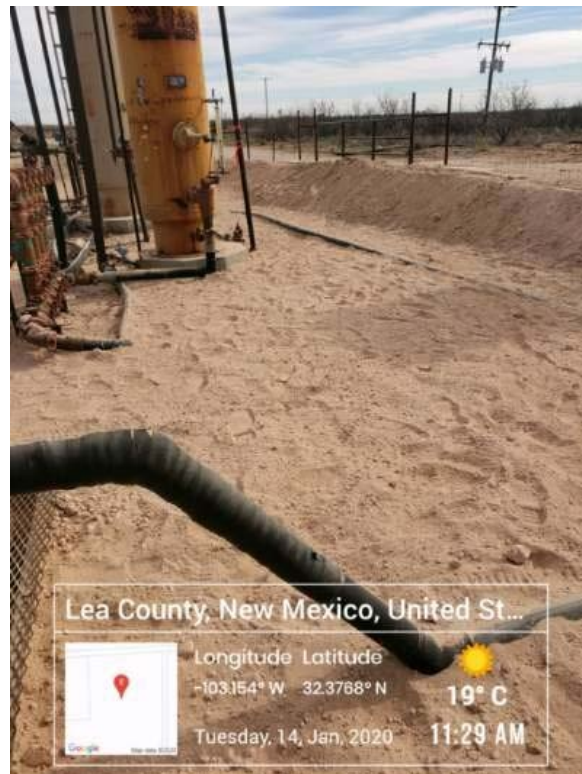
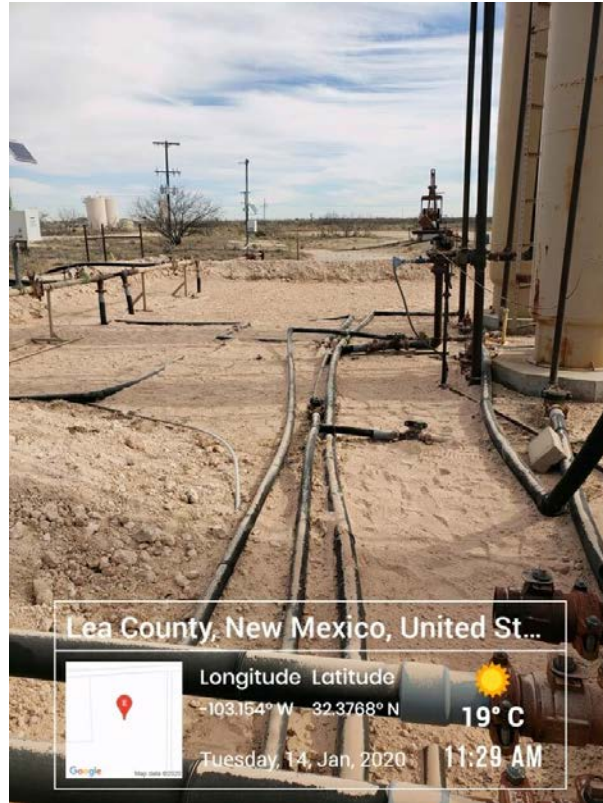




**ELLIOT B FEDERAL 6 & 8 BATTERY – RELEASE DATE 10/29/2019**

**AFTER PHOTOS**





Type text here

Incident ID	NOY1831236288
District RP	1RP-5262
Facility ID	
Application ID	pOY1831236854

## 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: Carmen E Pitt Title: Senior EHS Specialist  
Signature: Carmen E Pitt Date: 5/06/2020  
email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

**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: \_\_\_\_\_