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Incident ID	NRM2024436143
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 <b>not</b> on an exploration, development, production, or storage site?	✓ Yes 🗌 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well.	ls.

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.

Received by OCD: 11/30/2020 7:26:35 AM
State of New Mexico
Page 4
Oil Conservation Division

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Incident ID	NRM2024436143	
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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: Carmen Pitt \_\_\_\_\_ Title: Senior ESH Specialist Signature: Carmen Pitt Date: <u>11/30/2020</u> email: cpitt@grizzlyenergyllc.com Telephone: (432)248-8145 **OCD Only** Date: 02/23/2021 Chad Hensley Received by:

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	1 18000
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### 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.

Received by: Chad Hensley  Date: 02/23/2021  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:	Closure Report Attachment Checklist: Each of the following its	ems must be included in the closure report.
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 Pitt	A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
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 of compliance with any other federal, state, or local laws and/or regulations. The responsible party of liability 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 Pitt  Title: Senior ESH Specialist  Signature: Carmen Pitt  Date: 11/30/2020  Email: cpitt@grizzlyenergyllc.com  Telephone: (432)248-8145  OCD Only  Received by: Chad Hensley  Date: 02/23/2021  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.  Date: 02/23/2021		of the liner integrity if applicable (Note: appropriate OCD District office
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email: cpitt@grizzlyenergyllc.com  Telephone: (432)248-8145  OCD Only  Received by: Chad Hensley  Date: 02/23/2021  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: 02/23/2021	Printed Name: Carmen Pitt	Title: Senior ESH Specialist
OCD Only  Received by: Chad Hensley  Date: 02/23/2021  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: 02/23/2021	Signature: Carmen Pitt	Date: 11/30/2020
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3	remediate contamination that poses a threat to groundwater, surface we party of compliance with any other federal, state, or local laws and/o	vater, human health, or the environment nor does not relieve the responsible
Printed Name: Chad Hensley Title: Environmental Specialist Advanced	Closure Approved by:	Date: 02/23/2021
	Printed Name: Chad Hensley	Title: Environmental Specialist Advanced

# Remediation Summary and Soil Closure Request

### Grizzly Energy, LLC Eddy Humble #4 SWD Tank Battery

Eddy County, New Mexico
Unit Letter J, Section 4, Township 18 South, Range 28 East
Latitude 32.7755 North, Longitude 104.17746 West
NMOCD Reference No. nRM2024436143

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Ben J. Arguijo

Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY	<b>4.0</b>
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN	5.0
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#### **FIGURES**

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site & Sample Location Map

#### **TABLES**

Table 1 - Concentrations of BTEX, TPH and/or Chloride in Soil

#### **APPENDICES**

Appendix A - Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

#### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Grizzly Energy, LLC, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as the Eddy Humble #4 SWD Tank Battery. Details of the release are summarized below:

Latitude: 32.77550 Longitude: -104.17746								
Provided GPS are in WGS84 format.								
Site Name: Eddy Humble #4 SWD Tank Battery Site Type: SWD								
ate Release Dis	covered	:	8/25/2020	API # (if	applical	ole):	30-015-40553	
Unit Letter	Sect	ion	Township	Range		County		
J	4		18S	28E		Eddy		
urface Owner:	X Stat	e I	Federal Triba	and Volume	(Name			
Crude Oil		Volume	e Released (bbls)			Volume Reco	vered (bbls)	
X Produced V	Vater	Volume	e Released (bbls)	643.1		Volume Reco	vered (bbls) 615	
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?								
Condensate	;	Volume	e Released (bbls)			Volume Reco	vered (bbls)	
Natural Ga	S	Volume	e Released (Mcf)			Volume Reco	vered (Mcf)	
Other (desc	ribe)	Volume	/Weight Released			Volume/Weigl	ht Recovered	
	attribut						n. The majority of the exited the containment.	
			]	Initial Respo	onse			
X The source	of the re	lease has	s been stopped.					
X The impacte	d area ha	ıs been s	secured to protect hu	ıman health and	the envi	ronment.		
X Release mat	1 - 1	ria haan	contained vie the ve	C L	lzag a <b>h</b> g	orbant nad ar at	ther containment devices	

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

#### 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	1	02'
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 4 & 5.

#### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria and Reclamation Standards for the Site are as follows:

Closure Criteria for Soil Impacted by a Release

Closure Criteria for Son impacted by a recease								
<b>Probable Depth to Groundwater</b>	Constituent	Method	Limit					
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg					
102'	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg					
	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg					
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg					
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg					

<sup>\*</sup> The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

#### 4.0 REMEDIATION ACTIVITIES SUMMARY

On September 11, 2020, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced to the extents practicable within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, eleven (11) delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', SH1 @ Surface, SH1 @ 1', WH1 @ Surface, WH1 @ 1', SP1 @ 1' - R, SP2 @ 1' - R, and SP3 @ 2' - R) were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond one (1) foot below ground surface (bgs), and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

On November 10, 2020, Etech commenced remediation activities at the site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On November 11, 2020, Etech collected ten (10) excavation confirmation soil samples (NW-1 through NW-4, SW-1 through SW-4, EW-1, and WW-1). Two (2) composite soil samples (S Pasture 1 and S Pasture 2) were also collected from the affected area in the adjacent pasture. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On November 12, 2020, Etech collected twenty (20) excavation confirmation soil samples (FL-1 through FL-20). The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

A "Site and Sample Location Map" is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

The final dimensions of the excavated area were fifty (50) to one hundred forty-five (145) feet in length, five (5) to forty-five (45) feet in width, and six (6) inches in depth. During the course of remediation activities, approximately forty-eight (48) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

#### 5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

#### 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Grizzly Energy, LLC, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Eddy Humble #4 SWD Tank Battery Site.

#### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Grizzly Energy, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Grizzly Energy, LLC.

#### 8.0 DISTRIBUTION

Grizzly Energy, LLC 4001 Penbrook Suite 201 Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

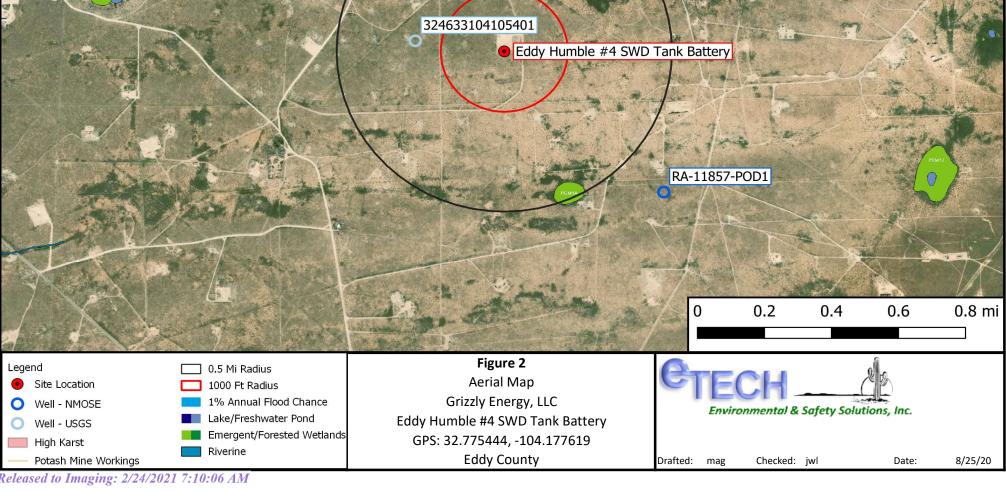
Hobbs Field Office

New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

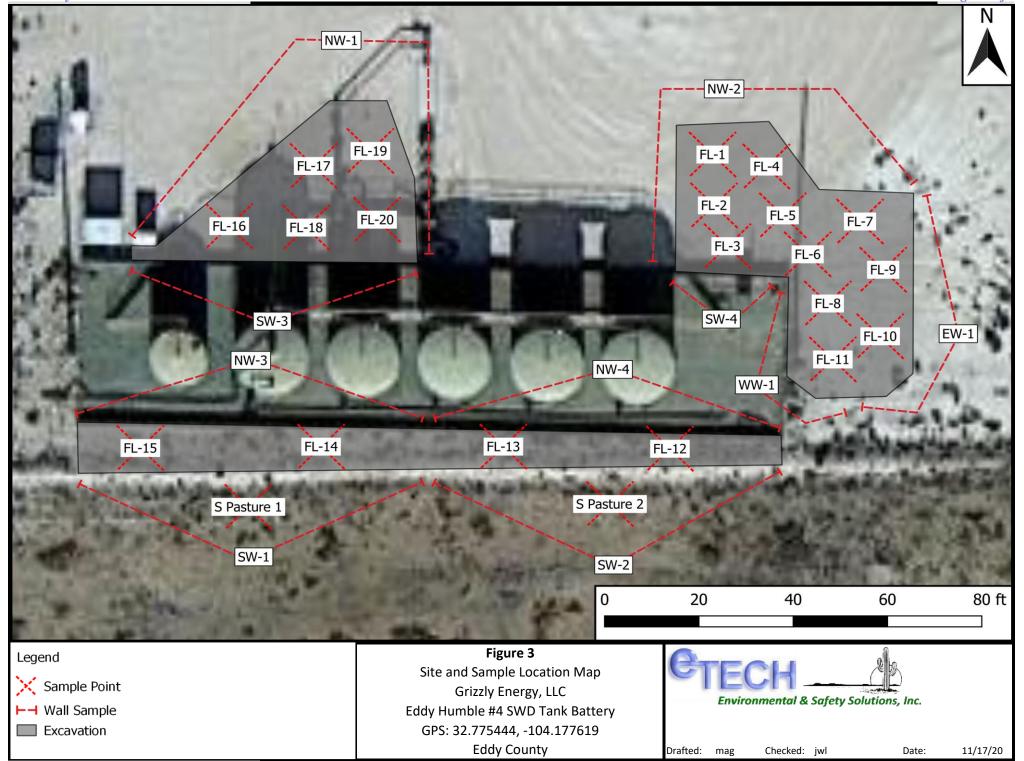
(Electronic Submission)

# Figure 1 Topographic Map

# Figure 2 Aerial Proximity Map



# Figure 3 Site and Sample Location Map



# Table 1 Concentrations of BTEX, TPH, and/or Chloride in Soil

#### TABLE 1

#### CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

#### **Grizzly Energy, LLC**

## **Eddy Humble #4 SWD Tank Battery**

NMOCD Ref. #: nRM2024436143

NMOCD Ref. #: nRM2024436143										1	
	CD Closure C			10	50	-	-	1,000	-	2,500	20,000
NMOCD	Reclamation	Standard	1	10	50	-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.	ī	4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NH1 @ Surface	9/11/2020	Surface	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NH1 @ 1'	9/11/2020	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	9/11/2020	Surface	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH1 @ 1'	9/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH1 @ Surface			In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH1 @ 1'	9/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	9/11/2020			< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH1 @ 1'	9/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP1 @ 1' - R	9/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,330
SP2 @ 1' - R	9/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,000
SP3 @ 2' - R	9/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
NW-1	11/11/2020		In-Situ	< 0.050	< 0.300	<10.0	140	140	94.8	235	8,880
NW-2	11/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,360
NW-3	11/11/2020		In-Situ	< 0.050	< 0.300	<10.0	109	109	33.7	143	10,700
NW-4	11/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
SW-1	11/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,600
SW-2	11/11/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,800
SW-3	11/11/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,330
SW-4	11/11/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,000
EW-1	11/11/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,760
WW-1	11/11/2020		In-Situ	<0.050	<0.300	<10.0	77.5	77.5	12.0	89.5	8,000
S PASTURE 1	11/11/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
S PASTURE 2	11/11/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL-1	11/12/2020	6" 6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
FL-2 FL-3	11/12/2020 11/12/2020	6"	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0 <20.0	<10.0	<30.0 <30.0	7,200
FL-4	11/12/2020		In-Situ In-Situ	< 0.050	<0.300	<10.0	<10.0 <10.0	<20.0	<10.0	<30.0	3,320
FL-4 FL-5	11/12/2020		In-Situ In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,660 4,240
FL-6	11/12/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,200
FL-7	11/12/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,760
FL-8	11/12/2020		In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
FL-9	11/12/2020		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
FL-10	11/12/2020		In-Situ In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
FL-10	11/12/2020		In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120
FL-12	11/12/2020		In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,320
FL-13	11/12/2020		In-Situ	<0.050	< 0.300	<10.0	20.3	20.3	<10.0	20.3	4,720
FL-14	11/12/2020	-	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,640
FL-15	11/12/2020	-	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,240
FL-16	11/12/2020		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
FL-17	11/12/2020	<b>.</b>	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL-18	11/12/2020		In-Situ	<0.050	< 0.300	<10.0	10.7	10.7	<10.0	10.7	1,680
12 10	11/12/2020		าก-อาณ	\0.03U	\0.500	\1U.U	10.7	10.7	\1U.U	10.7	1,000

#### NOTES:

<sup>- =</sup> Sample not analyzed for that constituent.

#### TABLE 1

#### CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

#### **Grizzly Energy, LLC**

## **Eddy Humble #4 SWD Tank Battery**

#### NMOCD Ref. #: nRM2024436143

NMOCD Closure Criteria 10 50					-	1,000	-	2,500	20,000		
NMOCD Reclamation Standard		10	50	•	-			100	600		
				SW 846	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL-19	11/12/2020	4"	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,960
FL-20	11/12/2020	4"	In-Situ	< 0.050	< 0.300	<10.0	168	168	86.4	254	8,400

# Appendix A Depth to Groundwater Information



## 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)

1 1 2 05 18S 26E

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

**POD** 

QQQ Subbasin County 64 16 4 Sec Tws Rng Code

X 577784 3625988

Water DistanceDepthWellDepthWater Column

95 feet

1040 95 feet

235

Average Depth to Water:

Minimum Depth:

Maximum Depth: 95 feet

Record Count: 1

**POD Number** 

RA 11857 POD1

UTMNAD83 Radius Search (in meters):

**Easting (X):** 577018.53 Radius: 1610 **Northing (Y):** 3626692.33

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8/25/20 12:31 PM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 11857 POD1

1 1 2 05 18S 26E

577784 3625988

**Driller License:** 1064

Driller Company:

DELFORD W. MARTIN

Driller Name: MARTIN, DELFORD

**Drill Start Date:** 09/25/2012

**Drill Finish Date:** 

10/01/2012 Plug Date:

**Log File Date:** 10/15/2012

PCW Rcv Date:

Source:

Shallow d: 95 GPM

Pump Type: Casing Size:

5.00

Pipe Discharge Size: Depth Well: Estimated Yield: Depth Water:

95 feet

Water Bearing Stratifications:

Top Bottom Description

130 Sandstone/Gravel/Conglomerate

235 feet

160

235 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

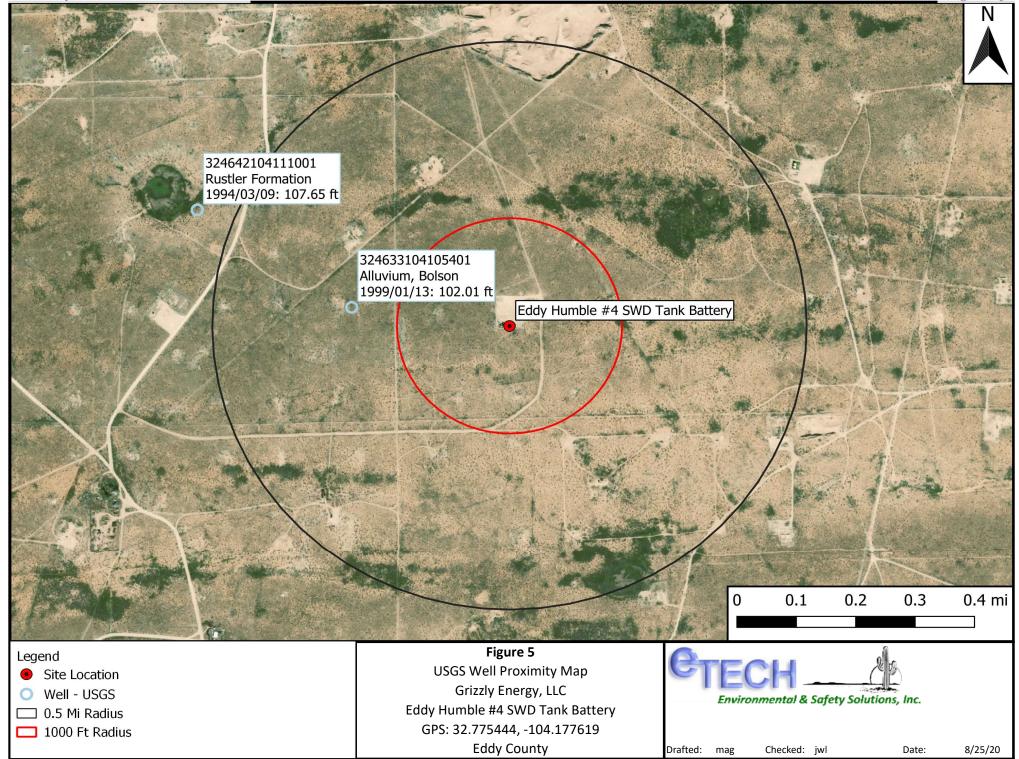
Top Bottom

140 235

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.

8/25/20 12:31 PM

POINT OF DIVERSION SUMMARY



Page 25 of 98
USGS Home
Contact USGS
Search USGS

**National Water Information System: Web Interface** 

......

Data Category:

Groundwater

Geographic Area:

United States

GO

GO

#### Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324633104105401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324633104105401 18S.28E.04.32412

Eddy County, New Mexico Latitude 32°46'33", Longitude 104°10'54" NAD27 Land-surface elevation 3,665 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1985-06-04		D	103.08				2	U		U	Α
1989-02-02		D	107.27			2	2	U		U	А
1994-03-09		D	100.78			2	2	S		U	Α
1999-01-13		D	102.01			2	2	S	USGS	S	Α

Exp	lanation	

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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

**Explanation of terms** 

Released to Imaging: 2/24/2021 7:10:06 AM

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-25 14:28:33 EDT 0.28 0.25 nadww01





**National Water Information System: Web Interface** 

Data Category: Groundwater ✓ United States **∨** GO

#### Click to hideNews Bulletins

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- Full News

Groundwater levels for the Nation

#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324642104111001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324642104111001 18S.28E.04.131444

Eddy County, New Mexico Latitude 32°46'42", Longitude 104°11'10" NAD27 Land-surface elevation 3,640 feet above NGVD29 The depth of the well is 145.00 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats			
Table of data			
Tab-separated data			
Graph of data			
Reselect period			

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1985-06-04		D	109.39			2	2 7	2	S	U	Α
1990-09-19		D	106.60			2	2 2	2	S	U	Α
1994-03-09		D	107.65			2	2 2	2	S	U	Α

Evn	lanation
Exp	ianation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status	Z	Other conditions existed that would affect the measured water level (explain in remarks).
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> **Data Tips** Explanation of terms
Subscribe for system changes **News** 

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-25 14:28:34 EDT 0.26 0.24 nadww01

## Appendix B Field Data and Soil Profile Logs



#### **Initial Release Assessment Form**

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9.11-20

Project: Eddy Hu
Project Number:

Eddy Humble #4 SWD Tank Battery

12970

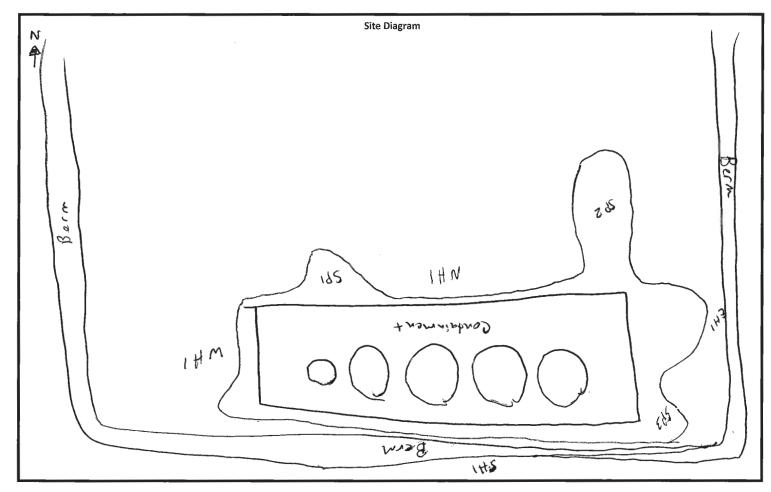
Clean Up Level: 32.775444

Latitude:

Longitude:

-104.177619

0



Notes:						
Stain easy to	5C4					
Conduct In	tial Assessment					
Deliverte 5	¥					
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						_
~Length: \50	~Width: 5-45'	~Area: 3,800	~Depth: رله''			
				Yes	No	
3-4 Representative	Pictures of the Affected	Area including sample locat	tions?	-		

3-4 Representative Pictures of the Affected Area including sample locations? Necessary Samples Field Screened and on Ice?

Sample and Field Screen Data Entered on Sample Log? Was horizontal and vertical delineation achieved?

Released to Imaging: 2/24/2021 7:10:06 AM



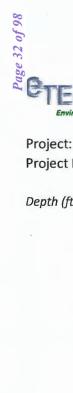
## Sample Log

Date:	9.11.20	

Project:	Eddy	/ Humble	#4	<b>SWD</b>	Tank	Batter

Project Number: 12970 -104.177619 Latitude: Longitude: 32.775444

Sample ID	PID/Odor	Chloride Conc.	GPS
Jampie ID			GF3
NHI @Sustace NHI @ I' EHI @ Sustace EHI @ I'	none	>112	<del>                                     </del>
FILL Octob		> itz	
th 1 (2) Surface	hone	>112	
EH I WI	none	>112	
of 1 (0) surface	None	>112	
SH 1@ surface SH 1@ 1' WH 1@ Surface	None	>112	
NH 1@ Surface	none	7112	
UH1(@1)	none	>112	
SPIQ surface	light	15528	
5P (@11-R	novy	4904	
SP2@ surface	light	15528	
57 (@11-R 572@5012-ce 573@11-R	none	6260	
5 4 3 (2) S US (1)	light	10496	
573@1' 583@2'-R	none	2584	
SP 3 @ 2'-R	ao ne	1000	
			-
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	<del></del>		<del> </del>
			+
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area



Received by OCD: 11/30/2020 7:26:35 AM



## **Soil Profile**

Number:	#4 SWD Tank Battery 12970	Latitude:	32.775444	Longitude:	-104.177619
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38	distribution of the professional and the profession	alessandricates and the second se	ones me Anno mun periody fiete protocoleticis lexitatistici de consistenti possibili de consistenti de consiste	de man Daniel Statillian (1911) De la company de la compan	
39	######################################	anta especial de la grada de aplica de la plante de la penancia de la penancia de la penancia de la penancia d	ortonoktiniki Olik Dijaziki o jevenik de ejeke kontolije krencene jede ko o omorto	Militaria de la California de California de California de California de California de California de California	HARRING CONTROL OF THE CONTROL OF T
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## **Remediation Log**

oject Number:	Pending	Latitude:	32.775444	Longitude:	-104.1	77619
					Yes	No
Confirmation of Active	e One Call? One Call	No.			□/	
Confirmation of Active One Call? One Call No Confirmation of On-Site JSA?						
Date:	Notes			Yds		
11-10-20	****Begin	Remediation Ac	tivities****		Out	ln
11-10-20	exective con	elv svil	out show	hous		
11-11-20	exectived	with Do	I will h	wal		
1/-12-20	locky/	off com	Bodifel		48 jds	48 yd
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		***Begin Backfil				
	****C	omplete Remedia	ation Activities***			
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					_ 4 ଷ	48
					Yes	No
Pictures of Open Excavation Prior to Backfill						

Relevant Information in Project Tracker?

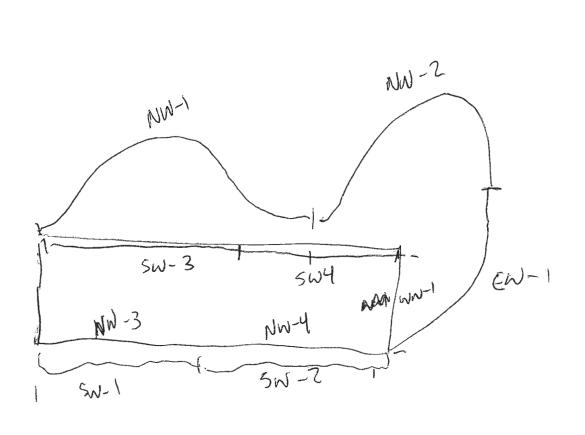
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## Field Map

Project: 12970

Date: 1//1/20





## Sample Log

Date:

Project:

Eddy Humble #4 SWD Tank Battery

Project Number: Pending

Latitude:

32.775444

Longitude:

-104.177619

Sample ID	PID/Odor	Chloride Conc.	GPS
5W-1		77,6 8.4 19,928	
SW-2		77.0 8.0 6056	
SW-2 NW-3		>7.6 7.6 13164	
NW-4		77.0 8.6 22397	
5W-1A		76190 712220 18600	
NW-4A		76100 71220 15280	
Spastne 1		184	
Spanne Z		184 <120	
EW-1		2240	
WW-1		9480	
NW-l		10920	
NW-Z		5720	
SW-3		10/60	
5W-4		13400	
FL-1 6"		1,720	
FL-2 6"		11,720	
FL - 3 6" FL - 4 6"		3,160	
		7,480	
FL-5 6"		4,120	
FL -6 6"		8,760	
FL-7 6"	ļ	3,160	
FL -4 6"		6,480	
FL -9 6"		6,840	
$PI$ in $C^{\prime\prime}$		4/20	
FL-11 6"		4,/26	
tl-12 6"		9,480	
FL - 13 ("		6,280	
FL-14 6"		7480	
FL -15 411		6280	
FL-16 4"		4,120	
FL - 17 411		4,646	
FL - 14 411		3,160	
FL 19 411		3,640	
FL - 16		10,160	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b  Stockpile = Stockpile #1  GPS Sample Points, Center of Comp Areas
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas
; 2			



# Soil Profile

oject: Eddy Humb	ole #4 SWD Tank Battery		Date:   11	16/2020
oject Number:	Pending Latitud	de: 32.775444	Longitude:	-104.177619
11 16 1				
epth (ft. bgs)	I T LE	il/Calide Pad	escription	
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31	and the state of t	torodonisti toristi sustissi sustissi sustissi eta kiri eta	MCMF1401-DMCP-427-427-447-44-14-14-14-14-14-14-14-14-14-14-14-14-	иналический в элеком (пининиция първения се жез нагреждение причина измения на замена на предостава на причина
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Received by OCD: 11/30/2020 7:26:35 AM

# Appendix C Laboratory Analytical Reports



September 17, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: EDDY HUMBLE #4 SWD TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/11/20 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020 Reported: 09/17/2020 Sampling Type: Soil

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition:

Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: NH 1 @ SURFACE (H002420-01)

BTEX 8021B

DIEX 8021B	ilig	ky	Allalyze	u by: M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/11/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.7	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 12970

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: NH 1 @ 1' (H002420-02)

BTEX 8021B	, 3	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	09/11/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/11/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	103 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	111 9	6 42.2-15	6						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: EH 1 @ SURFACE (H002420-03)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/11/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celeg & Freene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Analyzed By: MS

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020 Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact

Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: EH 1 @ 1' (H002420-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	alyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	94.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: SH 1 @ SURFACE (H002420-05)

BTEX 8021B

DILX GOZID	1119/	rkg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	nalyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	92.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: Sample Received By: 12970 Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: SH 1 @ 1' (H002420-06)

BTEX 8021B	<0.050	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	92.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.7	% 42.2-15	6						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: WH 1 @ SURFACE (H002420-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	94.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	95.7	% 42.2-15	6						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: WH 1 @ 1' (H002420-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	112	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 12970

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: SP 1 @ 1' - R (H002420-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020

Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: SP 2 @ 1' - R (H002420-10)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	105	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Analyzed By: MS

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 09/11/2020 Sampling Date: 09/11/2020 Reported: 09/17/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact

Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: SP 3 @ 2' - R (H002420-11)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2020	ND	1.99	99.6	2.00	2.10	
Toluene*	<0.050	0.050	09/12/2020	ND	1.94	97.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	09/12/2020	ND	1.97	98.4	2.00	2.16	
Total Xylenes*	<0.150	0.150	09/12/2020	ND	5.73	95.6	6.00	2.21	
Total BTEX	<0.300	0.300	09/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	09/14/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2020	ND	175	87.5	200	11.5	
DRO >C10-C28*	<10.0	10.0	09/12/2020	ND	197	98.7	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	09/12/2020	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	100	% 42.2-15	6						

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### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# Received by OCD: 11/30/2020 7:26:35 AM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 2/24/2021 7:10:06 AM

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

Company Name:	Grizzly Energy, LLC						8	2	Z	3/L	LL TO						ANA	LYSIS	S RE	QUE	ST		
Project Manager	: Joel Lowry						P.	0. #.															
Address: 310	0 Plains Hwy						Co	mpa	any:	(	Grizzly												
City: Lovingto	n State: NM	Zip	: 8	8260	)		At	tn:	Carn	nen	Pitt					1							
	-396-2378 Fax #: 575-396-1	429					A	dre	ss:				1			1	1						
Project #: 129	70 Project Owner:		Grizz	y Ene	rgy, L	LC	Ci	ty:					1										
	Eddy Humble #4 SWD Tank Battery						St	ate:	NM	-	Zip:		1										
	n: Rural Eddy, Co						PI	one	#:				1			1	1						
Sampler Name:	Miguel Ram	irez					Fa	x #:					1										
FOR LAB USE ONLY		1.	П		MAT	RIX		PR	ESEF	٩V.	SAMPLIN	IG	1										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	НЫ	BTEX 8021								
1	NHI@ Surface	9	1		X				7		9.11.20		X	K	X								
2	NHIQI	9	1		7				X		9.11.20		X	X	X								
3	EHI @ surface	G	1		1				4		9.11.20		X	X	X								
4	EHIO!	6	1		X				8		9-11-20		X	X	1								
5	SHIP SUSTACE	G	ſ		X				X		9.11.20		X	X	X								
6	241011	G	1		K				X		9-11-20		V	X	X								
7	WHICOsurface	(2)	(		X				X		9.11.20		X	K	X								
8	WHIE!	G	1		X				X		9.11-20		X	X	X		-						
9	5P(@1'-R	4	1		X				X		9-11-20		X	X	1	-							
10	SPDE1-12  Id Damages. Cardinal's liability and client's exclusive remedy for a	G	,		X				1		9.11-20		X	X	X								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.

Mind Time 405	Received By:	Aldaksn	Phone Result: Fax Result: REMARKS:	Yes No Yes No Email results to	Add'I Phone #: Add'I Fax #: joel@etechenv.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.3 c #11	Sample Condition Cool Intact Pres Pres No No	CHECKED BY:				

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# RDINAL LABORATORIES

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

company Name: Etech Environmental & Safety Solutions, Inc.			BILL TO					ANA	LYSIS	RE	QUES	T	
roject Manager: Isel Lowry		P.O. #:											
ddress: P.O. Box 301		Compan	y: Grizzly										
City: Lovington State: NM Zip: 88260			armen P.							1			
thone #: (575) 396-2378		Address	:										
roject #: 12970 Project Owner: Grizz ly	Energy	City:											
Project Name: Eddy Wumble # 4 SWD Tank Bath	7	State:	Zip:		e	5M)	21B						
roject#: 12970 Project Owner: Grizzly roject Name: Eddy Wumble # 4 SWD Tank Bath roject Location: Rumi Eddy, co. sampler Name: Migui Ramina		Phone #	:		Chloride	TPH (8015M)	BTEX (8021B)						
ampler Name: Miggi Ramina		Fax #:			당	H.	E						
K LAB USE ONLY	MATRIX	PRES	ERV. SAMPL	ING		=	B						1
(G)RAB OR (C)OMP  # CONTAINERS  GROUNDWATER	WASTEWATER SOIL OIL SI LIDGE	OTHER: ACID/BASE:	OTHER:	TIME									
11 SP3-2'-R G 1	X	Y	9.11.20		X	X	X						
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LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising wi	her based in contra	ct or tort, shall be	limited to the amount pa	id by the client fo	r the				_				
naiyees. All claims including those for negligence and any other cause whatsoever shall be deemed waived un revice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, lifficates or successors arising out of or related to the performance of services hereunder by Cardinal, regardles:  Relinquished By:  Time:  Received  Time:	isiness interruptions of whether such clair By:	s, loss of use, or le	oss of profits incurred by	client, its subsidia	aries, ise. esult:	□ Ye	s 🗆 No	Add'l	Phone Fax #:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.3 2 #113	cool Intact Yes Y		HECKED BY: (Initials)	l lease e	andii I	Gouito	to ping	getechel	IV,CUII				

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



November 13, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: EDDY HUMBLE #4 SWD TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/12/20 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: NW - 1 (H003013-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8880	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	140	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	94.8	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	83.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.9	% 42.2-15	6						

Surrogate: 1-Chlorooctadecane 97.9 % 42.2-156

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

ma/ka

### Sample ID: NW - 2 (H003013-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	11/13/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.3	% 42.2-15	6						

# Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 12970 Sample Received By:

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: NW - 3 (H003013-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	109	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	33.7	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	94.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	113 9	6 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: NW - 4 (H003013-04)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102	% 42.2-15	6						

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: SW - 1 (H003013-05)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	101	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: SW - 2 (H003013-06)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: SW - 3 (H003013-07)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	92.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102	% 42.2-15	6						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: SW - 4 (H003013-08)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	88.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.3	% 42.2-15	6						

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Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: EW - 1 (H003013-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	91.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.5	% 42.2-15	6						

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: WW - 1 (H003013-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	< 0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	77.5	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	12.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	6 42.2-15	6						

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 12970 Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: S PASTURE 1 (H003013-11)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	72.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.1	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/11/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

### Sample ID: S PASTURE 2 (H003013-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	73.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.1	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 1 (H003013-13)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	65.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	69.7	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 2 (H003013-14)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	75.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.9	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 3 (H003013-15)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	72.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	76.2	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 4 (H003013-16)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/12/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/12/2020	ND					
Surrogate: 1-Chlorooctane	75.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.5	% 42.2-15	6						

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Celey D. Keine



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 5 (H003013-17)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	74.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.9	% 42.2-15	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 6 (H003013-18)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	77.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.9	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

### Sample ID: FL - 7 (H003013-19)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.5	200	14.4	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	171	85.5	200	30.0	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	76.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.4	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

#### Sample ID: FL - 8 (H003013-20)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2020	ND	1.94	96.9	2.00	4.34	
Toluene*	<0.050	0.050	11/12/2020	ND	1.87	93.4	2.00	4.60	
Ethylbenzene*	<0.050	0.050	11/12/2020	ND	1.96	98.1	2.00	5.19	
Total Xylenes*	<0.150	0.150	11/12/2020	ND	5.61	93.5	6.00	4.92	
Total BTEX	<0.300	0.300	11/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.4	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

#### Sample ID: FL - 9 (H003013-21)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	78.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.7	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

#### Sample ID: FL - 10 (H003013-22)

BTEX 8021B

	9/	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	11/13/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	72.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.1	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

ma/ka

#### Sample ID: FL - 11 (H003013-23)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	84.8	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

mg/kg

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

#### Sample ID: FL - 12 (H003013-24)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	76.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.2	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To:

(575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020 Soil

Reported: Sampling Type: 11/13/2020 Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact

Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

#### Sample ID: FL - 13 (H003013-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	20.3	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	79.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.1	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

ma/ka

#### Sample ID: FL - 14 (H003013-26)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	79.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	84.3	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

#### Sample ID: FL - 15 (H003013-27)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.9	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: GRIZZLY ENERGY - EDDY CO NM

mg/kg

#### Sample ID: FL - 16 (H003013-28)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.1	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 12970 Sample Received By:

Project Location: GRIZZLY ENERGY - EDDY CO NM

#### Sample ID: FL - 17 (H003013-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	82.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.9	% 42.2-15	6						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

,

ma/ka

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

#### Sample ID: FL - 18 (H003013-30)

RTFY 8021R

2.00 2.00 2.00 2.00 6.00	3.04 2.63 2.75 2.61	Qualifier
2.00 2.00	2.63 2.75	
2.00	2.75	
6.00	2.61	
True Value QC	RPD	Qualifier
400	0.00	
True Value QC	RPD	Qualifier
200	13.7	
200	22.3	
_	200	200 13.7

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: Sampling Type: Soil 11/13/2020

Project Name: **EDDY HUMBLE #4 SWD TANK BATTERY** Sampling Condition: Cool & Intact Project Number: 12970 Sample Received By: Tamara Oldaker

Project Location: GRIZZLY ENERGY - EDDY CO NM

#### Sample ID: FL - 19 (H003013-31)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	81.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.5	% 42.2-15	6						

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### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 11/12/2020 Sampling Date: 11/12/2020

Reported: 11/13/2020 Sampling Type: Soil

Project Name: EDDY HUMBLE #4 SWD TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 12970 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: GRIZZLY ENERGY - EDDY CO NM

ma/ka

#### Sample ID: FL - 20 (H003013-32)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	11/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2020	ND	183	91.3	200	13.7	
DRO >C10-C28*	168	10.0	11/13/2020	ND	180	89.9	200	22.3	
EXT DRO >C28-C36	86.4	10.0	11/13/2020	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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#### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# RDINAL LABORATORIES

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

Company Name:	Etech Environmental & Safe		s, In	C.					BI	LL TO						ANA	LYSI	S RE	QUE	ST			
Project Manager	: Joel Lowry						P.C	). #:															
Address: P.O.	Box 301						Co	mpan	ny:	Grizzly	Energy												
City: Lovingto	n State:	NM Zip	: 88	3260			Att	n:		Carmen P	itt												
Phone #: (575	i) 396-2378 Fax #:	(575) 396-	1429	9			Ad	dress	s:			1										1	
Project #: 1297	70 Projec	t Owner:	G	rizzly	Energ	ıy	Cit	y:				1										1	
Project Name:	Eddy Humble #4 SWD Tank Ba	ittery					Sta	ate:		Zip:		0	SM)	218								-	
Project Location	: Rural Eddy						Ph	one #	t:			Chloride	TPH (8015M)	(8021B)									
Sampler Name:	Matthew Grieco							x #:				ਤ	Ä	втех								1	
FOR LAB USE ONLY			T		MAT	RIX		PRES	SERV.	SAMPLI	NG	1	1	B									
Lab I.D. <i>H0030</i> 3	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	OTHER:	ACID/BASE:	OTHER:	DATE	TIME											•	
	NW-1	С	1		X			)	X	11/11/20		Х	Х	Х									
2	NW-2	С	2		X			)	X	11/11/20		X	X	Х					_				
3	NW-3	С	3		X	1		)	X	11/11/20		Х	X	Х									
	NW-4	С			X	-		)	X	11/11/20		X	X	Х			-	-	_	-		_	
7	SW-1	С			X	4	+	-	X	11/11/20		X	X	Х		_	-	-	-	-	-	-	
	SW-2	С	_	-	X	+	+-		X	11/11/20		X	X	Х	_	-	-	-	-	-	-	-	
	SW-3	С	-		X	-	+	-	X	11/11/20		X	X	X	_	-	-	-	-	-	-	-	
	SW-4	С	1		X	+	+		X	11/11/20		X	X	X	_	-	-	-				-	
/	EW-1 WW-1	C	-		X	+	+		X	11/11/20		X	X	X		-	1	-	-	-			_
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Ca	d Damages. Cardinal's liability and client's exclusive g those for negligence and any other cause whatco rufulnal be liable for incidental or consequental dama g out of or related to the performance of services he in the control of	remody for any classes shall be deem ages, including with ereunder by Cardin 2 - 20 R	im aris led wei out limi al, reg: ecel	sing whetlived unless sales ived is sales	her based in sample in sample cool in Yes	writing mupition such cla	and receis, loss of im is baselition	t, shall be ived by C i use, or i ed upon :	e limited to cardinal whose of perany of the	to the amount paid thin 30 days after other than 30 days after other than 30 days after other than 30 days after a bove stated reaches above stated reaches (ED BY: ials)	r completion of t lient, its subsidie	the the applica ries, se. esuit: it:	☐ Ye	s 🗆	No No	Add'I	Phone Fax #:		SH SA	AMPLI	ES.		

# RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 BILL TO Company Name: Etech Environmental & Safety Solutions, Inc. ANALYSIS REQUEST Project Manager: Joel Lowry P.O. #: Address: P.O. Box 301 Company: Grizzly Energy Lovington State: NM Zip: 88260 Attn: Carmen Pitt (575) 396-2378 Fax #: (575) 396-1429 Phone #: Address: Project #: 12970 Grizzly Energy **Project Owner:** City: (8021B) TPH (8015M) Project Name: Eddy Humble #4 SWD Tank Battery State: Zip: Chloride Project Location: Rural Eddy Phone #: BTEX Sampler Name: Matthew Grieco Fax #: MATRIX PRESERV. SAMPLING FOR LAB USE ONLY G)RAB OR (C)OMP SROUNDWATER CONTAINERS VASTEWATER Lab I.D. Sample I.D. ACID/BASE COOL SLUDGE CE/ 400303 DATE TIME S Pasture 1 C X X 11/11/20 X X X C S Pasture 2 X X X X 11/11/20 X 13 C X X X FL-1 X 11/12/20 X C X FL-2 X X X X 11/12/20 C FL-3 X X 11/12/20 X C X X X 11/12/20 X X FL-4 C X FL-5 X 11/12/20 X X X C X X FL-6 X 11/12/20 C FL-7 X X X 11/12/20 X FL-8 11/12/20 X PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the clients. analyses. All claims, including those for peolipance and any other cause whatroover shall be deemed unless made in writing and received by Cardinal within 30 days after completion of the applicable ☐ Yes □ No Add'l Phone #:

ervice. In no event shall Cardinal be liable for i	ncidental or con	sequental damages, including without limitation, business inten	ruptions, loss of use, or loss of profits incurred by o	dent, its subsidie
ffiliates or successors arising out of or related to	o the performan	ace of services hereunder by Cardinal, regardless of whether su	uch claim is based upon any of the above stated re-	asons or otherwi
Relinquisted By:		Date: 17-20 Received By:		Phone Re
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111 - 44-7	11.	And the second s	1 11/1/ 1/. 1	DESSADIA

☐ Yes □ No Add'I Fax #:

Time:

Delivered By: (Circle One) Sample Condition CHECKED BY:

Sampler - UPS - Bus - Other:

Cool Intact Tes Tes □ No □ No

(Initials)

Please email results to pm@etechenv.com. RUSH SAMPLES.

FORM-006 Revision 1.0

## ARDINAL LABORATORIES

<b>Company Name</b>	: Etech Environmenta	al & Safety Solu	tions	, Inc							BI	LL TO						ANAI	LYSIS	RE	QUE	ST			
Project Manage	r: Joel Lowry								P.C	). #:															
Address: P.O	. Box 301								Cor	mpa	ny:	Grizzly	Energy												
City: Lovingto	on	State: NM	Zip	: 88	260				Attı	n:		Carmen F	Pitt												
Phone #: (575	5) 396-2378	Fax #: (575)	396-1	429					Address: City: State: Zip: Phone #:																
Project #: 129	70	Project Owne	er:	Gr	izzly	Ene	rgy									_									
Project Name:	Eddy Humble #4 SWD	Tank Battery										State: Zip:			0	TPH (8015M)	BTEX (8021B)								
Project Location	n: Rural Eddy															(80									
Sampler Name:	Matthew Grieco								Fax	c #:				Chloride	F	X									
FOR LAB USE ONLY			T			MA	TRI	X		PRE	SERV	SAMPL	NG		=	FB									
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME												
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	FL-10		C	1		X					X	11/12/20		Х	Х	Х					_			L	
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	FL-18 nd Damages, Cardinal's liability and clie	nt's exclusive remedy for	C any clair	1 m arisi	na wheti	X ner base	_	ontract	or tort	_	X e limited	11/12/20 to the amount pa	d by the client for	X	X	X					_				
analyses. All claims include service. In no event shall Co	ng those for negligence and any other of ardinal be liable for incidental or conseq ng out of or related to the performance	ause whatsoever shall be quental damages, includi	deeme ng witto Cardina	ed wale et limit il, rega	ed unler ution, bu	s made siness it whethe	in wri	ting and ptions, i	i receiv	ved by (	Cardinal v	within 30 days after rolls incurred by	or completion of the completio	ne applica ries, se. sult:	□ Ye		No No		Phone Fax #:	#:				_	
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Sampler - UPS		3.7° 3	#11	ンス	(	ool	Int	act	s	-		tials)													

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	Time:			
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# RDINAL LABORATORIES

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

CHAIN-OF-	CUSTODY	AND ANAL	YSIS REQUEST
A. I. I. I. I. A. I.		1 41 4 Mb 1 41 41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

ompany Name: Etech Environmental & Safety Solutions, Inc.								BILL TO ANALYSIS REQUEST																																	
Project Manager: Joel Lowry							P.O.	#:																																	
Address: P.O. Box 301							Com	par	ny:	Grizzly	Energy																														
City: Lovington State	: NM Z	ip: 88	3260				Attn			Carmen F	Pitt	1																													
Phone #: (575) 396-2378 Fax #	t: (575) 396	-142	9				Addı	ress	3:			1																													
Project #: 12970 Proje	ct Owner:	G	rizzly	Ene	ergy		City:					1								1			ı																		
Project Name: Eddy Humble #4 SWD Tank E	attery		S					S																	State	e:		Zip:		0	SM)	BTEX (8021B)									
roject Location: Rural Eddy							Pho	ne il	t:			Chloride	TPH (8015M)	(80)																											
Sampler Name: Matthew Grieco							Fax	#:				당	H	X																											
FOR LAB USE ONLY		T		M	ATRI	X	P	RES	ERV.	SAMPLI	NG	1	1	B																											
Lab I.D. Sample I.D.		# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE.	OTHER:	DATE	TIME																														
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EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusion																1	_		_		-		_																		
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Sampler - UPS - Bus - Other: 27	e #1	1/3		4	es _	Yes		7	VE	) _																															

# Appendix D Photographic Log

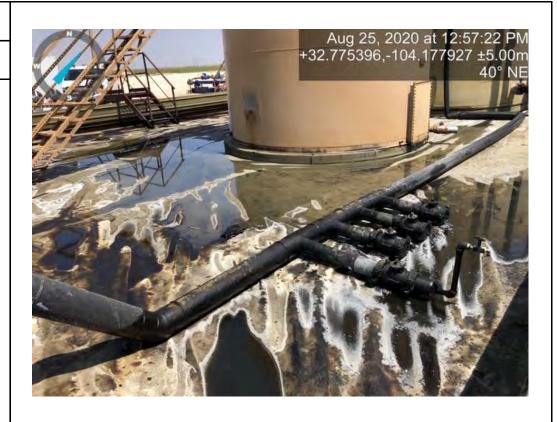
**Photo Number:** 

1

Photo Direction: Northeast

**Photo Description:** 

Release area inside containment.



**Photo Number:** 

2

Photo Direction: West

**Photo Description:** 

Release area inside containment and south of tank battery.



**Photo Number:** 

3

**Photo Direction:** 

West

**Photo Description:** 

Release area south of tank battery.



**Photo Number:** 

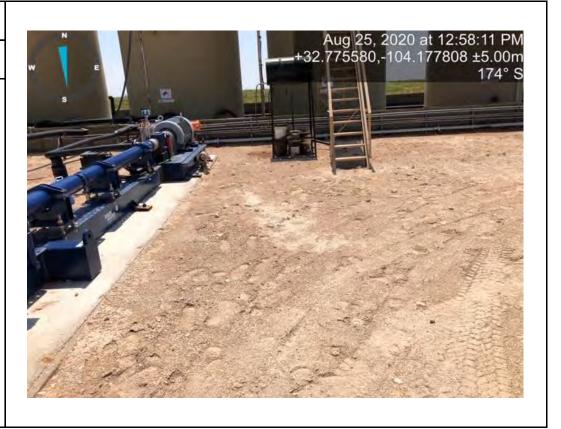
4

Photo Direction:

South

**Photo Description:** 

Release area on north side of tank battery.



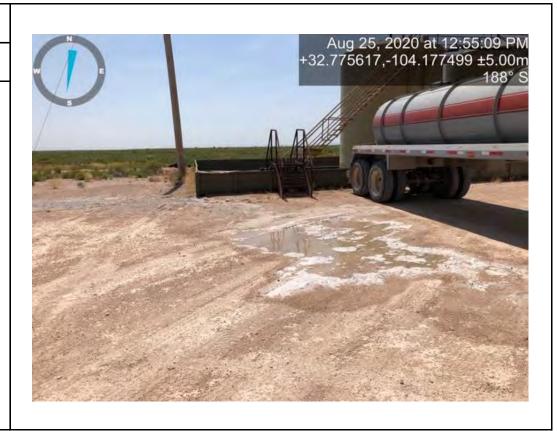
**Photo Number:** 

5

**Photo Direction:** South

**Photo Description:** 

Release area on northeast and east sides of tank battery.



**Photo Number:** 

6

Photo Direction: Southeast

**Photo Description:** 

Release area on east side of tank battery.



**Photo Number:** 

7

**Photo Direction:** 

East

**Photo Description:** 

Remediated area on northeast and east sides of tank battery.



**Photo Number:** 

8

Photo Direction:

Southeast

**Photo Description:** 

Remediated area on east side of tank battery.



**Photo Number:** 

9

Photo Direction: Southwest

**Photo Description:** 

Remediated area on north side of tank battery.



**Photo Number:** 

10

**Photo Direction:** 

South

**Photo Description:** 

Remediated area on north side of tank battery.



**Photo Number:** 

11

**Photo Direction:** 

East

**Photo Description:** 

Remediated area on south side of tank battery.



**Photo Number:** 

12

**Photo Direction:** North-Northeast

**Photo Description:** 

Remediated area on south side of tank battery.



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 11348

#### **CONDITIONS OF APPROVAL**

Operator:			OGRID:	Action Number:	Action Type:
GRIZZLY OPERATING, LLC	5847 San Felipe, Suite 3000	Houston, TX77057	258350	11348	C-141

OCD Reviewer	Condition
chensley	None