# **Remediation Summary & Soil Closure Request**

### **COG Operating, LLC Smalls Federal 8H**

Lea County, New Mexico Unit Letter "D", Section 33, Township 22 South, Range 34 East Latitude 32.354808 North, Longitude 103.4835 West NMOCD Reference No. NRM2030933548

Prepared By:

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cel

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Environmental & Safety Solutions, Inc.

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### **TABLE OF CONTENTS**

Section

PROJECT INFORMATION.	1.0
SITE CHARACTERIZATION.	
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY	4.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	5.0
SOIL CLOSURE REQUEST	6.0
LIMITATIONS	
DISTRIBUTION.	8.0

#### FIGURES

Figure 1 - Topographic Map Figure 2 - Aerial Proximity Map Figure 3 - Site & Sample Location Map

#### TABLES

Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

#### APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data & Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

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Page 3 of 109

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

### **Location of Release Source**

Longitude

Latitude			

Site Name	Site Type
Date Release Discovered	API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

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

### Nature and Volume of Release

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

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

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🗌 No	
If YES was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

### **Initial Response**

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

The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:	Title:
Signature: Sheldon guitan	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Page 2

<b>Received by OCD: 5/19/</b> Form C-141 Page 4	2021 7:54:19 AM State of New Mexico Oil Conservation Divisior	1	Incident ID District RP Facility ID Application ID	Page 5 of 109
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations.	nformation given above is true and complete to the are required to report and/or file certain release ne comment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a the e of a C-141 report does not relieve the operator of	otifications and perform c e OCD does not relieve th ireat to groundwater, surf of responsibility for comp	and understand that purs orrective actions for rele e operator of liability sh ace water, human health bliance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
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Signature: Sheldo	D Hitan	Date:		
email:		Telephone:		
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<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Title: Signature: Sheldon Jutan Date: email: Telephone: \_\_\_\_\_ OCD Only Received by: Date: Denied Deferral Approved Approved Approved with Attached Conditions of Approval Signature: Date:

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Oil Conservation Division

	Page 7 of 109
Incident ID	
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-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.

Page 3

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# Closure

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

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name:	Title:
Signature: Sheldon guitan	Date:
email:	Telephone:
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remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	
Closure Approved by:	Date:
Printed Name:	

## 1.0 **PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Smalls Federal 8H (henceforth, "Site"). Details of the release are summarized below:

latitude:	32	.354808	Longitude:		-103.483500
		Provide	ed GPS are in WGS84 form	at.	
Site Name:	Sma	lls Federal 8H	Site Type:		Flowline
Date Release Disc	overed:	10/17/2020	API # (if applied	cable):	30-025-43069
Unit Letter	Section	Township	Range	County	
"D"	33	228	34E	Lea	
Surface Owner:	X State	Federal Tribal	Private (Nat	ne	
			 nd Volume of I		
		Inature af	nd volume of I	xelease	
Crude Oil	Volu	me Released (bbls)		Volume Reco	overed (bbls)
X Produced W	ater Volu	me Released (bbls)	30	Volume Reco	overed (bbls) 7
		concentration of total		X Yes	No N/A
Condensate	Volu	ume Released (bbls)		Volume Reco	overed (bbls)
Natural Gas	Volu	me Released (Mcf)		Volume Reco	overed (Mcf)
Other (descr	ibe) Volu	me/Weight Released		Volume/Weig	th Recovered
Cause of Release The release was standing fluids.		hole in a fiber spar line	e in the pasture. A v	vacuum truck was	s dispatched to remove all free
		In	nitial Response		
X The source of	f the release	has been stopped.			
X The impacted	l area has be	en secured to protect hu	man health and the e	nvironment.	
X Release mate	rials have be	een contained via the use	e of berms or dikes, a	bsorbent pad, or o	other containment devices
X All free liquid	ds and recov	erable materials have be	en removed and man	naged appropriate	ly.

# 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 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?	220'
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) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 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 NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
220'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

### 4.0 **REMEDIATION ACTIVITIES SUMMARY**

On March 29, 2021, remediation activities commenced 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-permitted surface waste facility for disposal. Olfactory/visual senses and a Hach Quantab ® chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On March 30, 2021, Etech collected 10 confirmation soil samples (NW1, EW1, SW1, WW1, and FL 1 @ 1' through FL 6 @ 1') from the sidewalls and floor of the excavation. The soil samples were submitted to a certified commercial 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 NMOCD Reclamation Standard in each of the submitted soil samples.

On March 31, 2021, Etech collected two (2) confirmation soil samples (EW2 and EW3) from the sidewalls of the excavation. 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 NMOCD Reclamation Standard in both of the submitted soil samples.

On April 6, 2021, Etech collected 24 confirmation soil samples (WW2, WW3, and FL 7 @ 2' through FL 28 @ 2') from the sidewalls and floor of the excavation. 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 NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil sample FL 7 @ 2', which exhibited a chloride concentration of 640 mg/kg.

On April 7, 2021, Etech collected seven (7) confirmation soil samples (FL 29 @ 2' through FL 35 @ 4') from the floor of the excavation. 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 NMOCD Reclamation Standard in each of the submitted soil samples.

On April 9, 2021, the excavation was further advanced in the area characterized by soil sample FL 7 @ 2'. Etech collected one (1) confirmation soil sample (FL 7 @ 2.5') from the floor of the excavation. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 110 feet in length, 10 to 55 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, approximately 560 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in 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 Site are provided in Appendix D.

### 5.0 **RESTORATION, RECLAMATION & 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 compacted and contoured 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- and/or landowner-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-permitted 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 COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Site.

### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & 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 COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

### 8.0 **DISTRIBUTION**

#### COG Operating, LLC

600 West Illinois Avenue Midland, TX 79701

#### New Mexico Energy, Minerals and Natural Resources Department

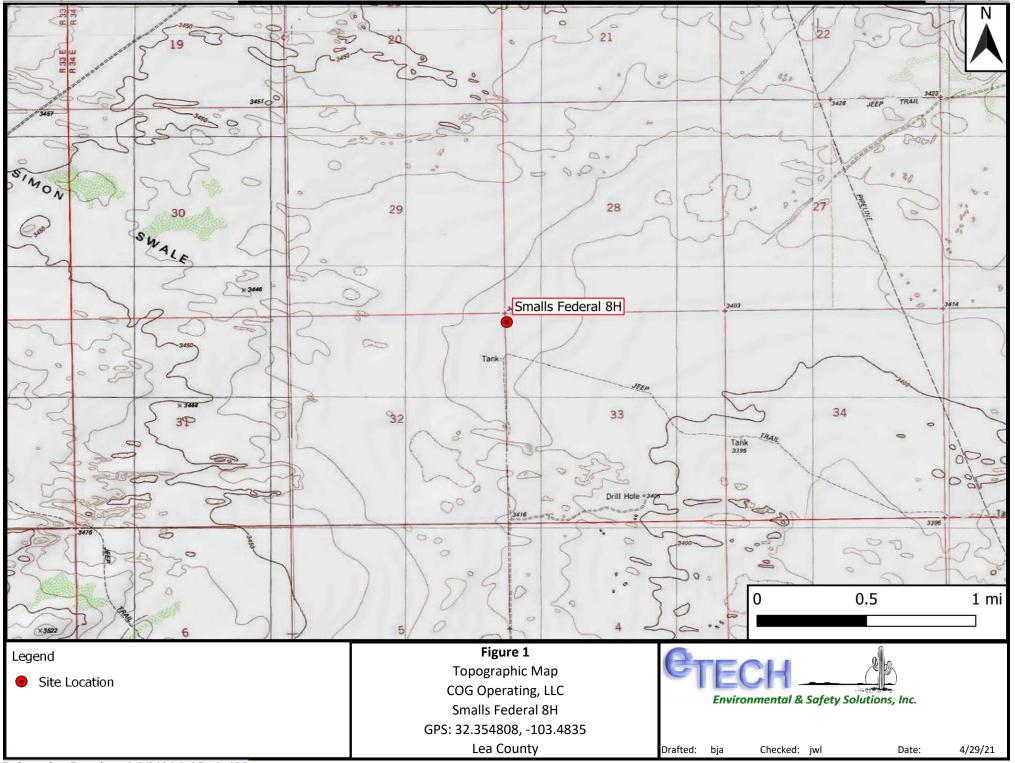
*Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505* 

### Hobbs Field Office

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

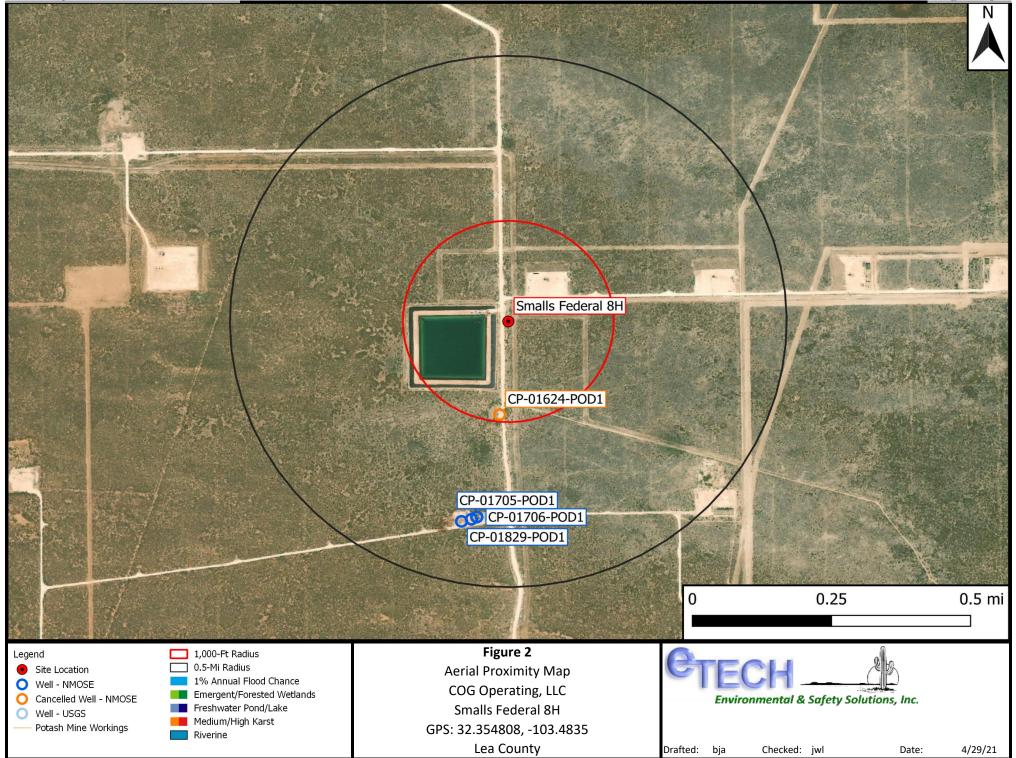
(Electronic Submission)

# Figure 1 Topographic Map



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# Figure 2 Aerial Proximity Map

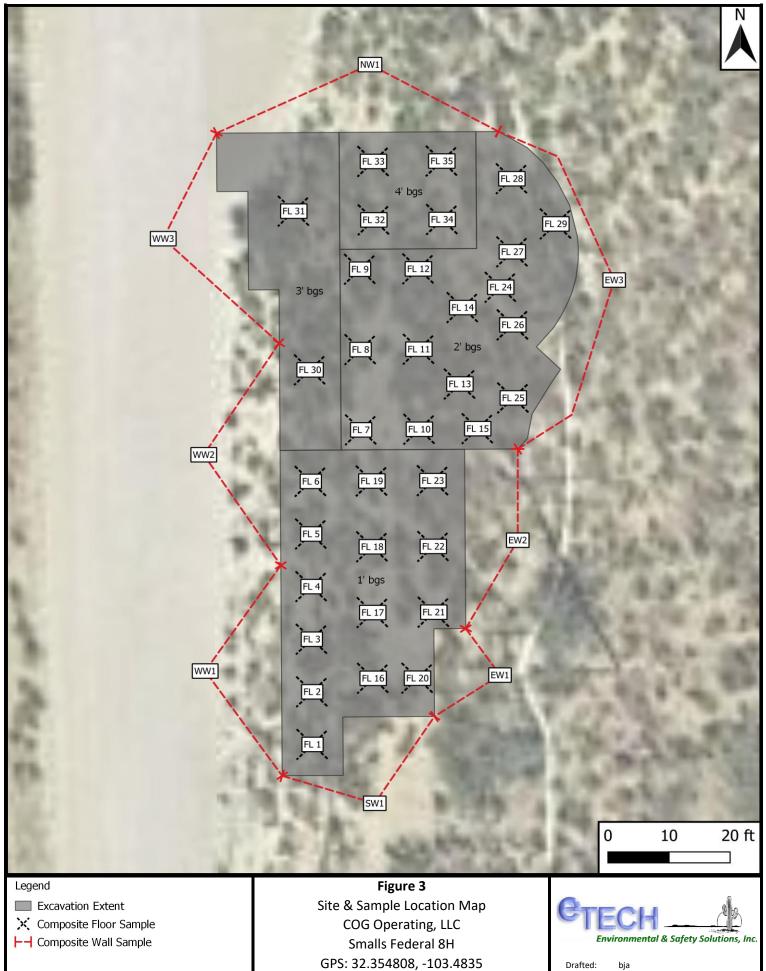


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# Figure 3 Site & Sample Location Map

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### Page 19 of 109



Lea County

Checked:

jwl

4/29/21

Date:

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# Table 1Concentrations of BTEX, TPH & Chloride in Soil

					Tab						
			Conce				Chloride in	a Soil			
					OG Opera	0,	2				
					Smalls Fe D Ref. #: N		933548				
NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	20,000
	Reclamation			10	50	-	-	-	-	100	600
				SW 840	5 8021B		SW	7 846 8015M	Ext.		4500 Cl
			Soil			GRO	DRO	GRO +	ORO	ТРН	
Sample ID	Date	Depth	Status	Benzene (mg/kg)	BTEX	$C_6 - C_{10}$	C <sub>10</sub> -C <sub>28</sub>	DRO C <sub>6</sub> -C <sub>28</sub>	C <sub>28</sub> -C <sub>36</sub>	C <sub>6</sub> -C <sub>36</sub>	Chloride (mg/kg)
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	$C_6 - C_{28}$ (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NW1	3/30/2021	2'-4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW1	3/30/2021	0'-1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW2	3/31/2021	0'-2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW3	3/31/2021	0'-2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW1	3/30/2021	0'-1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW1	3/30/2021	0'-1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW2	4/6/2021	0'-3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
WW3	4/6/2021	0'-3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 1 @ 1'	3/30/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 2 @ 1'	3/30/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 3 @ 1'	3/30/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 4 @ 1'	3/30/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 5 @ 1'	3/30/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 6 @ 1'	3/30/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 7 @ 2'	4/6/2021	2'	Excavated	< 0.050	< 0.300	<10.0	12.5	12.5	<10.0	12.5	640
FL 7 @ 2.5'	4/9/2021	2.5'	In-Situ	-	-	-	-	-	-	-	64.0
FL 8 @ 2'	4/6/2021	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 9 @ 2'	4/6/2021	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 10 @ 2'	4/6/2021	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 11 @ 2'	4/6/2021	2'	In-Situ		<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 12 @ 2'	4/6/2021	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 13 @ 2' FL 14 @ 2'	4/6/2021	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 14 @ 2 FL 15 @ 2'	4/6/2021 4/6/2021	2' 2'	In-Situ In-Situ	<0.050 <0.050	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0	80.0 96.0
FL 15 @ 2 FL 16 @ 1'	4/6/2021		In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0 <30.0	128
FL 10 @ 1 FL 17 @ 1'		1'	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0			96.0
FL 17 @ 1 FL 18 @ 1'	4/6/2021 4/6/2021	1'	In-Situ In-Situ	<0.030	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0 <30.0	90.0 144
FL 18 @ 1 FL 19 @ 1'	4/6/2021	1'	In-Situ In-Situ	<0.050	<0.300	<10.0	60.3	60.3	<10.0	60.3	208
FL 19 @ 1 FL 20 @ 1'	4/6/2021	1'	In-Situ In-Situ	<0.050	<0.300	<10.0	48.4	48.4	<10.0	48.4	208
FL 20 @ 1 FL 21 @ 1'	4/6/2021	1'	In-Situ	<0.050	<0.300	<10.0	23.4	23.4	<10.0	23.4	160
FL 22 @ 1'	4/6/2021	1'	In-Situ	<0.050	<0.300	<10.0	39.0	39.0	<10.0	39.0	224
FL 23 @ 1'	4/6/2021	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 24 @ 2'	4/6/2021	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 25 @ 2'	4/6/2021	2'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 26 @ 2'	4/6/2021	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 27 @ 2'	4/6/2021	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 28 @ 2'	4/6/2021	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 29 @ 2'	4/7/2021	2'	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 30 @ 3'	4/7/2021	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 31 @ 3'	4/7/2021	3'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 32 @ 4'	4/7/2021	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
NOTES:	-		•				•				

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Italicized text denotes a concentration that exceeds the NMOCD Reclamation Standard

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			Conce	C	Tabl of BTEX, OG Opera Smalls Fe D Ref. #: N	TPH & C ating, LLC deral 8H	2	ı Soil			
NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	20,000
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 840	5 8021B			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 33 @ 4'	4/7/2021	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
		-									
FL 34 @ 4'	4/7/2021	4'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,260

NOTES:

- = Sample not analyzed for that constituent.

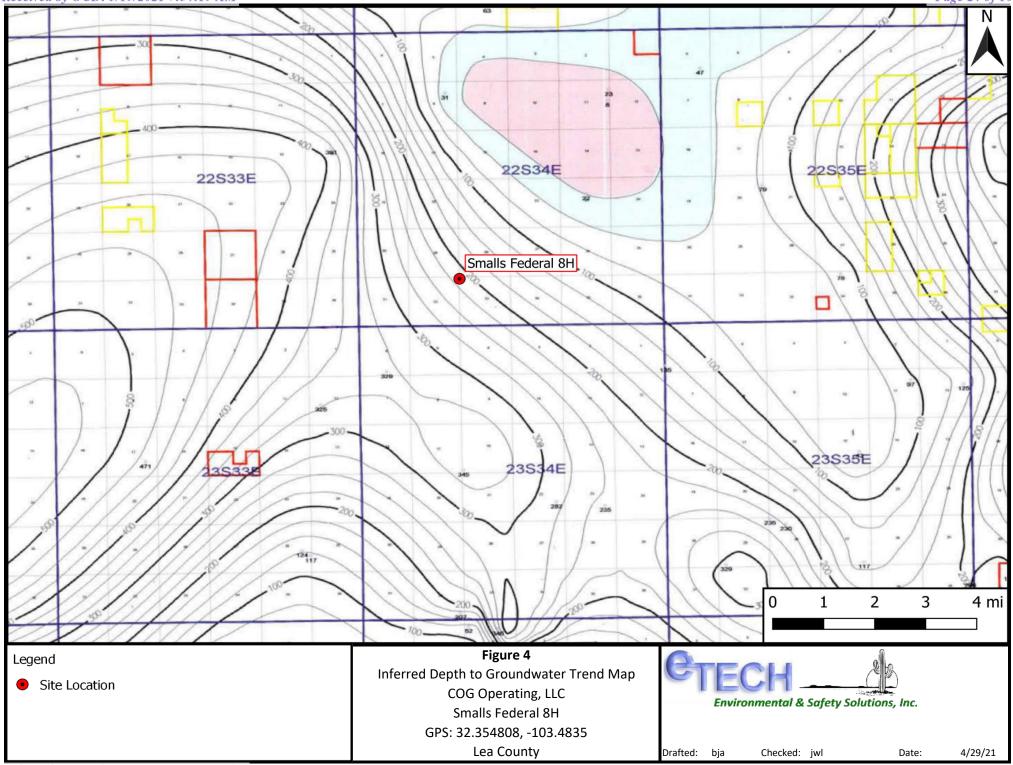
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Italicized text denotes a concentration that exceeds the NMOCD Reclamation Standard

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# Appendix A Depth to Groundwater Information

Page 24 of 109



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(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphan C=the file closed)	ned, e is	1	```					/ 2=NE est to lar	3=SW 4=SI gest) (N	e) Jad83 utm	l in m	eters)	(In	feet)	
		POD Sub-		0	Q	0									v	Vater
POD Number	Code		County				Sec	Tws	Rng	Х	Y		DistanceDe	pthWellDep		
<u>CP 01706 POD1</u>		СР	LE	4	4	2	32	22S	34E	642603	3580185	9	596	340	282	58
<u>CP 01705 POD1</u>		СР	LE	4	4	2	32	22S	34E	642588	3580179	6	605	700	305	395
<u>CP 01829 POD1</u>		СР	LE	4	4	2	32	22S	34E	642559	3580172	6	617	1410	1150	260
											А	verag	e Depth to Wa	ter:	579 fee	et
													Minimum De	epth:	282 fee	et
													Maximum De	epth:	1150 fee	et
Record Count: 3																
UTMNAD83 Radiu	s Search (in	meters	) <u>:</u>													
Easting (X): 642	2694.35		North	ning	(Y)	):	3580	775.33	3		Radius: 80	)4.67				
The data is furnished by the lacuracy, completeness, reliable										derstanding th	hat the OSE/IS	SC ma	ke no warranties	s, expressed or i	mplied, concer	ning the

4/28/21 12:53 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarte	ers are 1=	NW 2	=NE 3=S	W 4=SE)			
	(quar	ters are s	mallest	to larges	t)	(NAD83 UT				
Well Tag	POD	Number	Q64	Q16 Q	4 Se	c Tws	Rng	Х	Y	
NA	CP (	)1706 POD1	4	4 2	. 32	22S	34E	642603	3580185 🌍	
x Driller Lic	ense:	1706	Driller	Comp	any:	EL	ITE DR	ILLERS CO	RPORATION	
Driller Na	me:	BRYCE WALLA	CE							
Drill Start	Date:	01/06/2020	Drill F	inish D	ate:	0	1/07/202	20 Plu	g Date:	
Log File D	ate:	01/13/2020	PCW I	Rcv Da	te:			Sou	irce:	Shallow
Pump Typ	e:		Pipe D	ischarg	ge Siz	e:		Est	imated Yield:	55 GPM
Casing Siz	e:	4.30	Depth	Well:		3	40 feet	De	pth Water:	282 feet
X	Wate	er Bearing Stratifi	cations:	]	Гор	Botton	Desci	ription		
					240	295	Sands	stone/Gravel/	Conglomerate	
					295	340	) Sands	stone/Gravel/	Conglomerate	
X		Casing Perfe	orations:	]	Гор	Botton	1			
					280	34(	)			

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

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POINT OF DIVERSION SUMMARY

# New Mexico Office of the State Engineer Point of Diversion Summary

			(q	uarters a	re smalle	2=NE 3=S st to larges	t)	·	3 UTM in meters)	
Vell Tag	POD	Number	Qe	64 Q16	Q4 Se	e Tws	Rng		X Y	
0D10	CP 0	1705 POD1	4	4	2 3	2 228	34E	64258	3580179 🌍	
Oriller Licen Oriller Name		1058 KEY, CASI		ler Co	mpany:	KE	Y'S DI	RILLING	& PUMP SERVIC	CE
Drill Start D	ate:	04/02/2018	B Drill	Finis	h Date:	0:	5/01/20	018	Plug Date:	
.og File Dat	e:	05/23/2018	B PCV	V Rev	Date:	00/01/2010			Source:	Shallow
ump Type:					arge Si	76.			Estimated Yield:	350 GPM
Casing Size:		8.00	-	th Wel			)0 feet		Depth Water:	305 feet
using Size.		0.00	Dep	in vver		,,			Deptil Water	505 1001
•	Wateı	Bearing S	tratifications:		Тор	Bottom	Desc	ription		
					270	317	Sand	lstone/Gra	avel/Conglomerate	e
					317	375			avel/Conglomerate	
					375	420			avel/Conglomerate	
					420	565			avel/Conglomerate	
					565	590 700			avel/Conglomerate	
					590	700	Sanc	istone/Gra	avel/Conglomerate	2
		Casing	g Perforations	:	Тор	Bottom				
					300	700				
1	Meter	· Number:	18949			Meter	Make:		SEAMETRICS	
1	Meter	· Serial Nui	<b>nber:</b> 06201	900233	34	Meter	Multip	olier:	1.0000	
1	Numb	er of Dials	: 8			Meter	Туре:		Diversion	
1	Unit o	of Measure:	Barrel	s 42 ga	ıl.	Return	Flow	Percent:		
1	Usage	Multiplier	:			Readin	g Free	quency:	Monthly	
; Meter Re	eading		 Feet)							
Meter Re Read I		gs (in Acre- Year M	Feet)		Rdr	Comm	ent		Mtr	Amount Onl
Read I	Date	Year M							Mtr	Amount Onl
	Date 2019		Feet) Mtr Reading	Flag A		New M			Mtr	
<b>Read I</b> 08/06/2	Date 2019 2019	<b>Year</b> M 2019	Feet) Mtr Reading 0	Flag A A	RPT	New M			Mtr	0
<b>Read I</b> 08/06/2 09/01/2	Date 2019 2019 2019 2019	Year M 2019 2019	Feet) Mtr Reading 0 317662	Flag A A A	RPT RPT	New M			Mtr	0 40.945
Read I 08/06/2 09/01/2 11/04/2	Date 2019 2019 2019 2019 2019	Year M 2019 2019 2019 2019	Feet) Mtr Reading 0 317662 773965	Flag A A A A	RPT RPT RPT	New M			Mtr	0 40.945 58.814
Read I 08/06/2 09/01/2 11/04/2 12/03/2	Date 2019 2019 2019 2019 2019 2020	Year M 2019 2019 2019 2019 2019	Feet) Mtr Reading 0 317662 773965 773965	Flag A A A A A	RPT RPT RPT RPT	New M			Mtr	0 40.945 58.814 0
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2	Date 2019 2019 2019 2019 2019 2020 2020	Year M 2019 2019 2019 2019 2019 2020	Feet) Mtr Reading 0 317662 773965 773965 981451	Flag A A A A A	RPT RPT RPT RPT RPT	New M			Mtr	0 40.945 58.814 0 26.744
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2	Date 2019 2019 2019 2019 2019 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2019           2019         2019           2020         2020	Feet) Mtr Reading 0 317662 773965 773965 981451 1349349	Flag A A A A A A	RPT RPT RPT RPT RPT RPT	New M			Mtr	0 40.945 58.814 0 26.744 47.420
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 03/02/2	Date 2019 2019 2019 2019 2020 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2019           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 773965 981451 1349349 1546290	Flag A A A A A A A	RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	0 40.945 58.814 0 26.744 47.420 25.384
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2	Date 2019 2019 2019 2019 2020 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2019           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 773965 981451 1349349 1546290 1546290	Flag A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	0 40.945 58.814 0 26.744 47.420 25.384 0
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 06/04/2	Date 2019 2019 2019 2019 2020 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 773965 981451 1349349 1546290 1546290 1546290	Flag A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\end{array}$
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 05/04/2 06/04/2	Date 2019 2019 2019 2019 2020 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 773965 981451 1349349 1546290 1546290 1546290 1546290	Flag A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\\ 0\\ 0\end{array}$
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 06/04/2 06/04/2 07/02/2	Date 2019 2019 2019 2020 2020 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 981451 1349349 1546290 1546290 1546290 1546290 1546290 1546290	Flag A A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\end{array}$
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 05/04/2 07/02/2 08/03/2 10/09/2	Date           2019           2019           2019           2019           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020           2020	Year         N           2019         2019           2019         2019           2019         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 981451 1349349 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290	Flag A A A A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0 \\ 40.945 \\ 58.814 \\ 0 \\ 26.744 \\ 47.420 \\ 25.384 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 05/04/2 06/04/2 07/02/2 08/03/2 10/09/2 11/06/2	Date           2019           2019           2019           2019           2019           2020	Year         N           2019         2019           2019         2019           2019         2019           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 981451 1349349 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290	Flag A A A A A A A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 06/04/2 06/04/2 08/03/2 10/09/2 11/06/2 12/14/2	Date           2019           2019           2019           2019           2019           2020	Year         N           2019         2019           2019         2019           2019         2019           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 773965 981451 1349349 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290	<b>Flag</b> A A A A A A A A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 05/04/2 06/04/2 07/02/2 08/03/2 10/09/2 11/06/2 12/14/2 01/07/2 02/05/2	Date 2019 2019 2019 2019 2020 2020 2020 2020	Year         N           2019         2019           2019         2019           2019         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020           2020         2020	Feet) Mtr Reading 0 317662 773965 981451 1349349 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290	<b>Flag</b> A A A A A A A A A A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$
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Read I 08/06/2 09/01/2 11/04/2 12/03/2 02/01/2 03/02/2 04/01/2 05/04/2 05/04/2 06/04/2 07/02/2 08/03/2 10/09/2 11/06/2 12/14/2 01/07/2 02/05/2	Date 2019 2019 2019 2019 2020 2020 2020 2020	Year M 2019 2019 2019 2019 2020 2020 2020 2020	Feet) Mtr Reading 0 317662 773965 981451 1349349 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290 1546290	<b>Flag</b> A A A A A A A A A A A A A A A A A A A	RPT RPT RPT RPT RPT RPT RPT RPT RPT RPT	New M			Mtr	$\begin{array}{c} 0\\ 40.945\\ 58.814\\ 0\\ 26.744\\ 47.420\\ 25.384\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$

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# *New Mexico Office of the State Engineer* **Point of Diversion Summary**

			(1			=NE 3=S				
			••			to larges	·		[M in meters)	
Well Tag	POD	Number	Q64 (	Q16 Q4	Sec	e Tws	Rng	Х	Y	
NA	CP (	)1829 POD1	4	4 2	32	22S	34E	642559	3580172 🌍	
<sup>x</sup> Driller Lic	ense:	1706	Driller	Comp	any:	EL	TE DR	ILLERS CO	RPORATION	
Driller Na	me:	WALLACE, BR	YCE J.LEE.N	NER						
Drill Start	Date:	08/25/2020	Drill Fi	nish D	ate:	1	0/31/202	20 Plu	ıg Date:	
Log File D	ate:	11/17/2020	PCW R	cv Dat	te:			So	urce:	Artesian
Pump Type:			Pipe Di	Pipe Discharge Size:					imated Yield:	180 GPM
Casing Siz	e:	7.87	Depth V	Well:		14	410 feet	b De	pth Water:	1150 feet
x	Wate	er Bearing Stratif	fications:	Т	`op 🗌	Bottom	Desci	ription		
				11	50	1210	Sands	stone/Gravel/	Conglomerate	
				12	210	1375	Sands	stone/Gravel/	Conglomerate	
				13	75	1390	Sands	stone/Gravel/	Conglomerate	
X		Casing Per	forations:	Т	`op 🗌	Bottom				
				12	213	1410				

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

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POINT OF DIVERSION SUMMARY

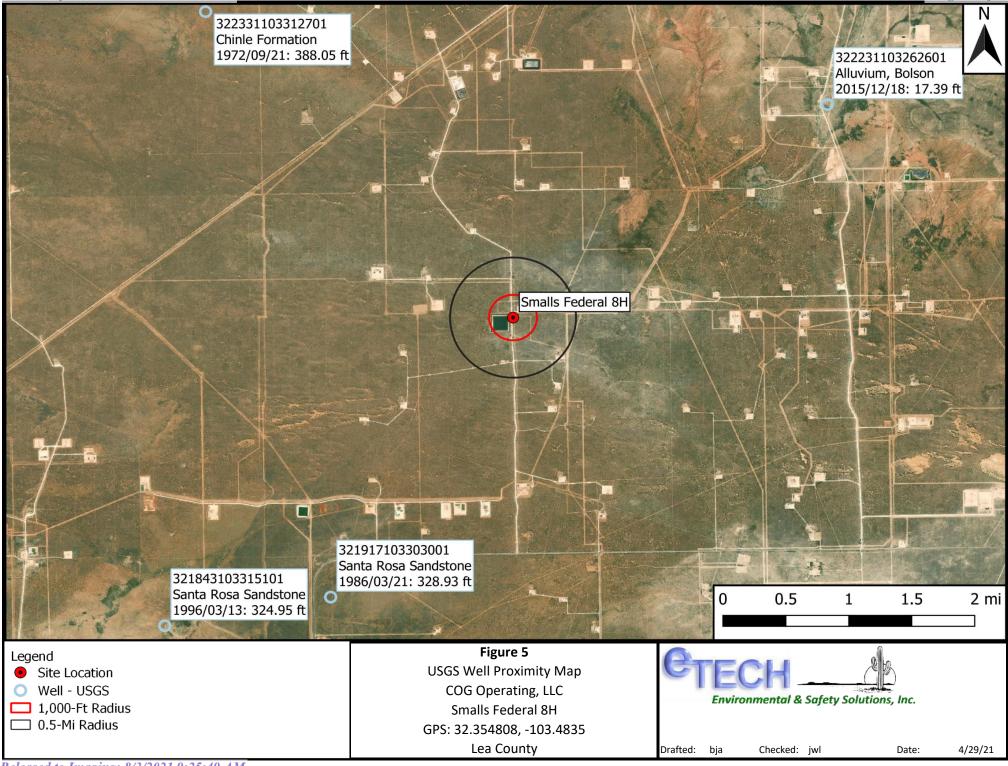
Respired by OCD: 5/19/2021.7:54:19. AM/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=CP&nbr=01624886ff29 of 109

et image list	WR File Number: Primary Purpose:	CP 01624 EXP EX	PLORATIO	Subbasin: N	СР	Cross Re	ference: -		
t image nst	Primary Status: Total Acres:	CAN CA	NCELLED	Subfile:	-		Н	eader: -	
	Total Diversion: Agent: Contact: Owner: Contact:	0 ATKINS EN JESSICA AT LIMESTON BILL ANGE	TKINS E LIVESTO		e: -				
get images		/ <b>Act 1</b> 7-04-26 AP	P WDR CH		с.	From/ To T	0	Diversion Co	onsumptive 0
urrent P	606698 EXPL 2016-	- <u>08-22</u> CA	N CAN CH		NAD83 UTM	T	0 Cancelle	0 ed	
	Number Well	Tag Source		<b>ec Tws Rng</b> 32 22S 34E	X 642670	Y 3580494	Other Loc	ation Desc	
	x								
ource									

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WATER RIGHT SUMMARY

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#### Page 31 of 109



National Water Information System: Web Interface

**USGS** Water Resources

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Groundwater levels for the Nation

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#### Search Results -- 1 sites found

Agency code = usgs site no list =

• 321843103315101

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321843103315101 23S.33E.12.312423

Lea County, New Mexico Latitude 32°19'06", Longitude 103°31'53" NAD83 Land-surface elevation 3,531.00 feet above NGVD29 The depth of the well is 400 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

 Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1965-11-03		D	72019	346.25			3	3 Z			А
1968-06-11		D	72019	334.39			3	3 Z			А
1971-01-13		D	72019	326.70			1	Z			А
1972-09-21		D	72019	351.70			3	3 Z			А
1976-12-08		D	72019	345.22			3	3 Z			А
1981-03-27		D	72019	330.92			3	3 Z			А

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 Geographic Area:

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 V

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1986-04-16		D	72019	325.82			1	Z			А
1991-05-30		D	72019	325.32			1	Z			А
1996-03-13		D	72019	324.95			1	S			А

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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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: 2021-04-21 19:04:57 EDT 0.33 0.29 nadww02 USA.gov



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#### Search Results -- 1 sites found

Agency code = usgs

site no list =

• 321917103303001

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321917103303001 23S.34E.06.43314

Lea County, New Mexico Latitude 32°19'17", Longitude 103°30'30" NAD27 Land-surface elevation 3,480 feet above NAVD88 The depth of the well is 640 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

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

Output formats

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-06-1	L	D	72019	338.90			1	Z			А
1986-03-2	L	D	72019	328.93			1	Z			А

Page 33 of 109

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 Data Category:
 Geographic Area:

 Groundwater
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		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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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: USGS Water Data Support Team Page Last Modified: 2021-04-21 19:06:29 EDT 0.46 0.32 nadww01 USA.gov





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 Data Category:
 Geographic Area:

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 V

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#### Search Results -- 1 sites found

Agency code = usgs site no list =

• 322231103262601

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 322231103262601 22S.34E.23.23131

Lea County, New Mexico Latitude 32°22'47.6", Longitude 103°26'25.3" NAD83 Land-surface elevation 3,452 feet above NAVD88 The depth of the well is 60 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. 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	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-06-10		D	72019	25.25			1	Z			,
1971-09-08		D	72019	26.98			3	Z			/
1976-12-16		D	72019	24.30			1	Z			1
1981-03-18		D	72019	23.37			1	Z			/
1986-04-10		D	72019	22.83			1	Z			/
1991-05-03		D	72019	22.53			1	Z			/
1996-02-21		D	72019	22.13			1	S			/

#### Released to Imaging: 8/3/2021 9:25:49 AM

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
2015-12-18	21:30 UTC	m	72019	17.39			1	S	USGS	S	А

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	Above
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-04-21 19:07:33 EDT 0.33 0.28 nadww02

USA.gov

Received by OCD: 5/19/2021 7:54:19 AM



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Page 37 of 109

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# Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 322331103312701

# **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

# USGS 322331103312701 22S.33E.13.14242

Lea County, New Mexico Latitude 32°23'31", Longitude 103°31'27" NAD27 Land-surface elevation 3,507 feet above NAVD88 The depth of the well is 490 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

 Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period

date- time accuracy	Parameter code	below land surface	specific vertical datum	datum	Status	Method of measurement	Measuring agency	Source of measurement	level approval status

# Received by OCD: 5/19/2021 7:54:19 AM

Explanation					
Section	Code	Description			
Water-level date-time accuracy	D	Date is accurate to the Day			
Parameter code	62610	Groundwater level above NGVD 1929, feet			
Parameter code	62611	Groundwater level above NAVD 1988, feet			
Parameter code	72019	Depth to water level, feet below land surface			
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988			
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929			
Status	3	Above			
Method of measurement	Z	Other.			
Measuring agency		Not determined			
Source of measurement		Not determined			
Water-level approval status	А	Approved for publication Processing and review completed.			

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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: 2021-04-21 19:08:28 EDT 0.33 0.3 nadww02 USA.gov

# **Appendix B Field Data & Soil Profile Logs**



# Sample Log

D	at	e:

	Samala ID	DID/Oder		Chlorido Conc		CDS
Project Num	ber:	13810	Latitude:	32.354808	Longitude:	-103.4835
Project:	Smalls Federal 8	4				

Sample ID	PID/Odor	Chioride Conc.	GPS
F1 29 021	-	320	
FL 30 @ 3'	$\frown$	7 (84	
FL 30 @ 3' FL 31 @ 3 3' FL 32 @ 3 9'4' FL 33 @ 35 8'4' FL 34 @ 2 1'4' FL 35 @ 2 3'4'		320	
FL 32 @ B D'4'		668	
FL 33@ 56 B'H		656	
FL34AB 1'4'		192	
FL 35 6 2 3 4'		580	
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Sample Point = SP #1 @ ## etc Floor = FL #1 etc Sidewall = SW #1 etc		Test Tranch Total Court	
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 Areas
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of 109		
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d - 1	Environmental & Safet	y Solutions, Inc.

# Soil Profile

Environmental & Safety Solutions, Inc.				Date:	
Project: Smalls Federal 8H Project Number:	13810	Latitude:	32.354808	Longitude:	-103.4835
	13010		52.554000		103.4033
Depth (ft. bgs)			Des	scription	
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# Appendix C Laboratory Analytical Reports



April 01, 2021

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

Lovington, NM 88260

RE: SMALLS FEDERAL 8H

Enclosed are the results of analyses for samples received by the laboratory on 03/30/21 16:40.

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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 1 @ 1' (H210787-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2021	ND	2.00	99.9	2.00	5.94	
Toluene*	<0.050	0.050	04/01/2021	ND	2.11	105	2.00	5.07	
Ethylbenzene*	<0.050	0.050	04/01/2021	ND	2.08	104	2.00	4.78	
Total Xylenes*	<0.150	0.150	04/01/2021	ND	6.32	105	6.00	5.05	
Total BTEX	<0.300	0.300	04/01/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/31/2021	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	03/31/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	03/31/2021	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-14	4						

# **Cardinal Laboratories**

\*=Accredited Analyte

Celeg Li Keene

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 2 @ 1' (H210787-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2021	ND	2.00	99.9	2.00	5.94	
Toluene*	<0.050	0.050	04/01/2021	ND	2.11	105	2.00	5.07	
Ethylbenzene*	<0.050	0.050	04/01/2021	ND	2.08	104	2.00	4.78	
Total Xylenes*	<0.150	0.150	04/01/2021	ND	6.32	105	6.00	5.05	
Total BTEX	<0.300	0.300	04/01/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/31/2021	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	03/31/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	03/31/2021	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.0	% 42.2-15	6						

# Cardinal Laboratories

\*=Accredited Analyte

Celez Litera

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 3 @ 1' (H210787-03)

	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/31/2021	ND	2.11	105	2.00	0.367	
<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
<0.300	0.300	03/31/2021	ND					
101 9	6 73.3-12	9						
mg/	kg	Analyzed By: GM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	03/31/2021	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/31/2021	ND	211	106	200	0.259	
<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
<10.0	10.0	03/31/2021	ND					
87.8	% 44.3-14	4						
85.2	42.2-15	6						
	<0.050 <0.050 <0.150 <0.300 <i>101 %</i> <b>mg/</b> Result <b>48.0</b> <b>mg/</b> Result <10.0 <10.0 <10.0 <i>87.8 %</i>	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.150 <0.150 0.150 <0.300 0.300 <i>101 % 73.3-12</i> <b>mg/kg</b> Result Reporting Limit <b>48.0</b> 16.0 <b>mg/kg</b> Result Reporting Limit <a href="https://www.sci.org"></a> Result Reporting Limit <a href="https://www.sci.org"></a> Result Reporting Limit <a href="https://www.sci.org"></a> <a href="https://www.sci.org">www.sci.org</a> <a href="https://www.sci.org"></a> www.sci.org						

# **Cardinal Laboratories**

\*=Accredited Analyte

Celez Litera

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:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 4 @ 1' (H210787-04)

mg/	′kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/31/2021	ND	2.11	105	2.00	0.367	
<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
<0.300	0.300	03/31/2021	ND					
101 9	% 73.3-12	9						
mg/kg		Analyzed By: GM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	03/31/2021	ND	416	104	400	0.00	
mg/	′kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/31/2021	ND	211	106	200	0.259	
<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
<10.0	10.0	03/31/2021	ND					
87.4	% 44.3-14	4						
	Result <0.050 <0.050 <0.150 <0.300 <i>101 9</i> <b>mg/</b> Result <b>80.0</b> <b>mg/</b> Result <10.0 <10.0 <10.0	<ul> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.050</li> <li>&lt;0.150</li> <li>&lt;0.300</li> <li>&lt;0.300</li></ul>	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 5 @ 1' (H210787-05)

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	03/31/2021	ND	2.11	105	2.00	0.367	
Toluene*	<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
Ethylbenzene*	<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
Total BTEX	<0.300	0.300	03/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/31/2021	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	03/31/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	03/31/2021	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.8	% 42.2-15	6						

# **Cardinal Laboratories**

\*=Accredited Analyte

Celez Litera

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:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 6 @ 1' (H210787-06)

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	03/31/2021	ND	2.11	105	2.00	0.367	
Toluene*	<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
Ethylbenzene*	<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
Total BTEX	<0.300	0.300	03/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 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	80.0	16.0	03/31/2021	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	03/31/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	03/31/2021	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.2	% 42.2-15	6						

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# 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:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: SW 1 (H210787-07)

mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/31/2021	ND	2.11	105	2.00	0.367	
<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
<0.300	0.300	03/31/2021	ND					
102	% 73.3-12	9						
mg/kg		Analyzed By: GM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	03/31/2021	ND	416	104	400	0.00	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/31/2021	ND	211	106	200	0.259	
<10.0	10.0	03/31/2021	ND	226	113	200	1.73	
<10.0	10.0	03/31/2021	ND					
87.4	% 44.3-14	14						
	Result <0.050 <0.050 <0.150 <0.300 <i>102</i> <b>mg</b> Result <16.0 <b>mg</b> Result <10.0 <10.0 <10.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.150 <0.150 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

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:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: WW 1 (H210787-08)

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	03/31/2021	ND	2.11	105	2.00	0.367	
Toluene*	<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
Ethylbenzene*	<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
Total BTEX	<0.300	0.300	03/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/31/2021	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	04/01/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	04/01/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	04/01/2021	ND					
Surrogate: 1-Chlorooctane	88.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: EW 1 (H210787-09)

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	03/31/2021	ND	2.11	105	2.00	0.367	
Toluene*	<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
Ethylbenzene*	<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
Total BTEX	<0.300	0.300	03/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	16.0	16.0	03/31/2021	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	04/01/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	04/01/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	04/01/2021	ND					
Surrogate: 1-Chlorooctane	85.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.0	% 42.2-15	6						

# **Cardinal Laboratories**

\*=Accredited Analyte

Celeg Li Keene

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/30/2021	Sampling Date:	03/30/2021
Reported:	04/01/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: NW 1 (H210787-10)

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	03/31/2021	ND	2.11	105	2.00	0.367	
Toluene*	<0.050	0.050	03/31/2021	ND	2.07	104	2.00	0.131	
Ethylbenzene*	<0.050	0.050	03/31/2021	ND	2.00	100	2.00	0.709	
Total Xylenes*	<0.150	0.150	03/31/2021	ND	5.91	98.6	6.00	0.905	
Total BTEX	<0.300	0.300	03/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	48.0	16.0	03/31/2021	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	04/01/2021	ND	211	106	200	0.259	
DRO >C10-C28*	<10.0	10.0	04/01/2021	ND	226	113	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	04/01/2021	ND					
Surrogate: 1-Chlorooctane	86.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.5	% 42.2-15	6						

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Celeg Li Keene

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

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Celeg Litteene

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

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

Project Manager:	Company Name: Etech Environmental & Safety Solutions, Inc.			nc.	BILL TO ANALYSIS REQUEST						ST									
					Ρ.		_	e Phillips						T				1		-
Address: P.O.						ompany:														
City: Lovington	n State: NM	Zi	p: 8	8260	Attn:															
Phone #: (575) 396-2378 Fax #: (575) 396-1429			-	Idress:											11					
Project #: 138		er:/i	on	oco Phillips																
Project Name: <	Malls Federal 8H	0	1	oco initips							ŝ	â								
Project Location:	Eural Lea County, NU	_			+	ate:	4	Zip:		Chloride	TPH (8015M)	BTEX (8021B)								
Sampler Name:	Migrel Riminez	1			1	ione #:				lor	(80	8								
FOR LAB USE ONLY	- agreed entry life?	T	Т	MATRIX	Fa	x #: PRESER		SAMPLING	_	ΰ	Hd	Ê								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	NN	GROUNDWATER WASTEWATER SolL OIL SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE T	IME											
	FLIRI	C	1	X		X		3/30/21		X	X	X	-	-	+			-	-+	-
	FL2@1'	<	1	X		X		3/30/21		X	X	X			+			-	-	
	EL3@1'	C	1	X		X		3/30/21		X	K	X	1	1	-		-	-	-+	-
	FLYQI	C	1	X		X	3	130/21		X	X	X	-					-	-	-
	ELS@1	C	1	X		X	1	3/30/21		X	X	X	-		1			+	-+	-
	FL 6@1'	C	1	X		X		3/36/21		X	X	X			-			-	-	-
	SWI	C	(	X		X		3/30/21		X	X	x						-	-	-
	WWI	0	1	X		X		3/30/21		X	X	X			-			-	-	-
91	EWI	C	í	X		X		3/30/21		X	X	X	-		-			+	-	-
	Damages. Cardinal's liability and client's exclusive remedy for a those for perimeters and any other care whether exclusive remedy for a	C	1	X		X		3/20/21		X	X		-	-			-	-	-+	-

Page 55 of 109



April 05, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SMALLS FEDERAL 8H

Enclosed are the results of analyses for samples received by the laboratory on 03/31/21 16:35.

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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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,

Celeg D. Keine

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:	03/31/2021	Sampling Date:	03/31/2021
Reported:	04/05/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: EW 2 (H210810-01)

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	04/02/2021	ND	2.22	111	2.00	2.55	
Toluene*	<0.050	0.050	04/02/2021	ND	2.12	106	2.00	2.41	
Ethylbenzene*	<0.050	0.050	04/02/2021	ND	2.10	105	2.00	2.82	
Total Xylenes*	<0.150	0.150	04/02/2021	ND	6.25	104	6.00	2.67	
Total BTEX	<0.300	0.300	04/02/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	128	16.0	04/05/2021	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	04/01/2021	ND	196	97.8	200	0.630	
DRO >C10-C28*	<10.0	10.0	04/01/2021	ND	200	99.8	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/01/2021	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.9	% 42.2-15	6						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

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:	03/31/2021	Sampling Date:	03/31/2021
Reported:	04/05/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: EW 3 (H210810-02)

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	04/02/2021	ND	2.22	111	2.00	2.55	
Toluene*	<0.050	0.050	04/02/2021	ND	2.12	106	2.00	2.41	
Ethylbenzene*	<0.050	0.050	04/02/2021	ND	2.10	105	2.00	2.82	
Total Xylenes*	<0.150	0.150	04/02/2021	ND	6.25	104	6.00	2.67	
Total BTEX	<0.300	0.300	04/02/2021	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	112	16.0	04/05/2021	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	04/01/2021	ND	196	97.8	200	0.630	
DRO >C10-C28*	<10.0	10.0	04/01/2021	ND	200	99.8	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/01/2021	ND					
Surrogate: 1-Chlorooctane	84.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.4	% 42.2-15	6						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name		ntal & Safety Solut	tions	, inc	2			T			BI	LL TO	1.11					ANA	LYS	S R	EQUE	ST		
Project Manage								1	P.O.	#:	Can	@ Philli	PS				T	T	1	T	1			T
Address: P.O	. Box 301									par														
City: Lovingto	m	State: NM	Zip	: 88	260			1	Attn	:														
Phone #: (575	5) 396-2378	Fax #: (575) 3	96-1	429				1	Add	ress	s:													
Project #: 13	.810	Project Owner	- 1	no	ca f	Tilli	R	0	City:					1										
Project Name:	malls Foleral 81	4							State	e:		Zip:			2W)	218								
Project Location	"Rural Lea cou Miguel Ram	nty, NM						F	ho	ne #	t:			Chloride	TPH (8015M)	BTEX (8021B)								
campler Name:	Miguel Ram	inz						F	ax	#:				ਤਿ	H	EX								
JR LAB USE ONLY						MA	TRIX		P	RES	ERV.	SAMPL	ING	1	=	1								
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE		OTHER :	DATE	TIME											
1	EW2		C	1		X			T	17	K	3/3/2		X	X	X	T							
2	EW3		C	1		X			I	1	X	3/31/21		X	X	X								
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naives. All claims includin envice. In no event shall Ca Milates or successors aniha Relinquished By Relinquished By	Down	processes whatscover shall be a sequential damages, including cord services harsunder by C Date: 3/31/21 Time: 35 Date: Time:	Re	t limita t, regar	d unless tion, but diess of red E ved E	s made i iness in whethe By:	Cor	g and re claim is claim is difficult	based	t by Ca o, ta w upon :	erdinal v uss us p any of th O	within 30 days all roles incurred by te above stated r	er completion of t	he applicat ries, se esult: ht: S:	C Ye	es D	No No	Add	I Phone I Fax #				 	

Page 60 of 109



April 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SMALLS FEDERAL 8H

Enclosed are the results of analyses for samples received by the laboratory on 04/06/21 16:50.

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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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,

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 7 @ 2' (H210849-01)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	640	16.0	04/08/2021	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	04/07/2021	ND	226	113	200	5.20	
DRO >C10-C28*	12.5	10.0	04/07/2021	ND	228	114	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	79.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.4	% 42.2-15	6						

# Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 8 @ 2' (H210849-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 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	592	16.0	04/08/2021	ND	400	100	400	3.92	
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	04/07/2021	ND	203	101	200	0.616	QR-03
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	77.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.5	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 9 @ 2' (H210849-03)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	480	16.0	04/08/2021	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	04/07/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	79.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.3	% 42.2-15	6						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

### Sample ID: FL 10 @ 2' (H210849-04)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	528	16.0	04/08/2021	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	04/07/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.6	% 42.2-15	6						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 11 @ 2' (H210849-05)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	384	16.0	04/08/2021	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	04/07/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.6	% 42.2-15	6						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 12 @ 2' (H210849-06)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	80.0	16.0	04/08/2021	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	04/07/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	83.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.5	% 42.2-15	6						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 13 @ 2' (H210849-07)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	384	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	82.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.9	% 42.2-15	6						

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### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

### Sample ID: FL 14 @ 2' (H210849-08)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	80.0	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	77.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.9	% 42.2-15	6						

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### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 15 @ 2' (H210849-09)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	96.0	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	77.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.9	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 16 @ 1' (H210849-10)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	128	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	78.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.7	% 42.2-15	6						

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Celez D. Keine

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

# Sample ID: FL 17 @ 1' (H210849-11)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	96.0	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	81.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.1	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 18 @ 1' (H210849-12)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	144	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	95.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.0	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 19 @ 1' (H210849-13)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	208	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	60.3	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	79.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.6	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 20 @ 1' (H210849-14)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	272	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	48.4	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	79.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.6	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 21 @ 1' (H210849-15)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	160	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	23.4	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	74.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.1	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 22 @ 1' (H210849-16)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	224	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	39.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	78.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.2	% 42.2-15	6						

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Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 23 @ 1' (H210849-17)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	512	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	71.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	74.8	% 42.2-15	6						

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#### \*=Accredited Analyte

Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 24 @ 2' (H210849-18)

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	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	560	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	73.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.4	% 42.2-15	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 25 @ 2' (H210849-19)

BTEX 8021B	mg/	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2021	ND	1.95	97.7	2.00	3.35	
Toluene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	2.26	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	2.03	102	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	6.33	106	6.00	3.12	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	336	16.0	04/08/2021	ND	400	100	400	3.92	
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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	79.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.4	% 42.2-15	6						

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#### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 26 @ 2' (H210849-20)

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	04/07/2021	ND	2.05	102	2.00	4.07	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	100	2.00	4.68	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.97	98.3	2.00	4.15	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.85	97.4	6.00	3.34	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	240	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	75.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.0	% 42.2-15	6						

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#### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 27 @ 2' (H210849-21)

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	04/07/2021	ND	2.05	102	2.00	4.07	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	100	2.00	4.68	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.97	98.3	2.00	4.15	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.85	97.4	6.00	3.34	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	144	16.0	04/08/2021	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	04/08/2021	ND	203	101	200	0.616	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	216	108	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					
Surrogate: 1-Chlorooctane	78.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.6	% 42.2-15	6						

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#### \*=Accredited Analyte

Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 28 @ 2' (H210849-22)

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	04/07/2021	ND	2.05	102	2.00	4.07	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	100	2.00	4.68	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.97	98.3	2.00	4.15	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.85	97.4	6.00	3.34	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	208	16.0	04/08/2021	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	04/07/2021	ND	210	105	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	210	105	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	92.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.5	% 42.2-15	6						

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: WW2 (H210849-23)

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	04/07/2021	ND	2.05	102	2.00	4.07	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	100	2.00	4.68	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.97	98.3	2.00	4.15	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.85	97.4	6.00	3.34	
Total BTEX	<0.300	0.300	04/07/2021	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	384	16.0	04/08/2021	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	04/07/2021	ND	210	105	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	210	105	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

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Celeg D. Keine

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: WW3 (H210849-24)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2021	ND	2.05	102	2.00	4.07	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	100	2.00	4.68	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.97	98.3	2.00	4.15	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.85	97.4	6.00	3.34	
Total BTEX	<0.300	0.300	04/07/2021	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	352	16.0	04/08/2021	ND	400	100	400	3.92	
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	04/07/2021	ND	210	105	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	210	105	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	89.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.9	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

# ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Joel Lowry	P.O. #:	
Address: P.O. Box 301	Company: Onoco Phillips	
City: Lovington State: NM Zip: 88260	Attn:	
Phone #: (575) 396-2378 Fax #: (575) 396-1429	Address:	
Project #: 13810 Project Owner: CONOLO Ph	City:	
Project Name: Smalls Federal 8H	State: Zip:	3TEX (8021B)
Project Location: Burgel Lea County, NM	State:     Zip:       Phone #:     Phone #:       Fax #:     Phone #:	
Sampler Name:	Fax #:	
R LAB USE ONLY	RIX PRESERV. SAMPLING	
Tap I'D' Samble I'D' RONTAINERS GROUNDWATER WASTEWATER	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: BMIL BUIL	35.
1 FL7@2' C1	X 4/6/21 X X	X
2 FL 8 @2' CI	X 416/21 X X	X
3 FL9@2' CI	X 4/6/21 X X	X
4 FLIDEZ' CI	X 4/6/21 X X	X
5 FL" @2' C1	X 4/6/21 X X	
OFLIZQZ' CI	X 41612 X X	X
1 FLI3@21 CI	X 4/6/21 X X	
8 FLI4@2' CI	X 4/6/21 X X	
5 FLIS@2' CI	¥ 4(b/2) X X	X
10 FLIGEI	X 416/2 XX	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising whother analyses. All claim: including these for negligences and any other chares whethere seemed whethere is served in no event shall Cardinal be liable for includental or consequential demages, including without finitudion, built affiliates or successors arising out of or related to the performance of services hereinader by Cardinal, regardless of w Relinquished BY: Relinquished BY: Delivered By: (Circle One)	veiling and received by Cardinal vilbla 30 days after comptetion of the applicable resplices, loss of vice, or loss of profile incurred by client, its substituents, auch claim is based upon any of the above stated reasons or otherwise.	taken & Drought directh

Page 87 of 109

# ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 28 of 29

101 East Marland, Hobbs, NM 88240

Company Name: Etech Environmental & Safe	y Solutions, Inc.	BILL TO		ANALYSIS REQUEST
Project Manager: Jeel Lowry		P.O. #:		
Address: P.O. Box 301		Company ( Conco PLIN		
City: Lovington State:	NM Zip: 88260	Attn:		
Phone #: (575) 396-2378 Fax #:	(575) 396-1429	Address:		
Project #: 13%(O Projec	Owner: Conoco Phillip	City:		
Project Name: Smalls Federal 81		State: Zip:	Chloride TPH (8015M) BTEX (8021B)	
Project Location: Fural Lea County Sampler Name:	, WM	Phone #:	Chloride PH (80151 EX (8021	
Sampler Name: Multon	~	Fax #:	H CH	
R LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACIDIGE OTHER : ACIDIBASE: OTHER : OTHER :		
IL FLITRI	CI X	X 4/6/21	XXX	
12 FL 18 Q1'	CI X	X 4/6/24	XXX	
13 FLIGEI	CIX	X. 4/4/21	XXX	
14 FL 20 @1'	CIX	X 41.6121	XXX	
15 FL 21@1'	CIX	X 4/4/21	XXX	
16 FL 22@1'	CI X	X 446/21	XXX	
17 FL 23@1'	EI X	X 4/6/21	XXX	
18 FL 24@1	CIX	X 4/6/2	AXX	
14 FL 2501	CIX	X 4/6/2/	XXX	
20 +12622	emedy for any claim arising whether based in cont	act or fort, shall be limited to the amount oaid by the client is	XXXX	
analyses. All claims including those for negligence and any other cause whateo	or shall be doomed welved unless made in writing	and or rotal and an another the and an and and parts of the second	the applicable	
Are inquished By: Relinquished By: Relinquished By: Date: Time: Delivered By: (Circle One)	Punder by Cardinal, regardless of whether such de	in is based upon any of the above stated reasons or ofhen Phone R Fiax Ress REMARK Please of Itigin CHECKED BY: (Laittats)	ise. esuit: DYes ilt: Yes S:	No       Add'l Phone #:         No       Add'l Fax #:         pm@etechenv.com.

**Revision 1.0** 

Received by OCD: 5/19/2021 7:54:19 AM

Page 88 of 109

# ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

: Etech Environmental & Sa	fety Solutions	s, In	D.						81	LL TO					-	ANA	LYSIS	REC	QUES	ът	
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. Box 301							Con	npai	ny:C	snocol	Phillip=										
on State	NM Zip	:88	260			- 1															
·	: (575) 396-1	429	1				Add	ress	s:												
S(O Proje	ct Owner: (	Coh	ø	Phi	lie	25	City		~ 7.4					6							
Smalls Federal 84							Stat	e:		Zip:		e	15M	215							
n: Rural Loa countr	NM						Pho	ne f	<b>k</b> :			lori	(801	(80							
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U				M	TRD		-	PRES	SERV.	SAMPLI	ING		F	â							
Sample I.D.	G)RAB OR (C)OI	CONTAINERS	SROUNDWATER	VASTEWATER	OIL	SLUDGE	DTHER :	ACID/BASE:	CE/COOL DTHER:	DATE	TIME										
FL 27@2'	Č	1	Ť	Y			Ť		X			X	x	X					-		1
FL 28/021	C	1						1	5	4/6/21		X	X	X							
WW2	С	1		17	4			1	N	4/6/21		X	X	X							
WW3	- F	1		1	9			)	5	46/21		X	X	X		-		-			-
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Box 301       Company: C         on       State: NM       Zip: 88260       Attn:         5) 396-2378       Fax #: (575) 396-1429       Address:         SO       Project Owner:       OAD PL/((p))       City:         Smalls       Faderal 8 H       State:       Phone #:         n:       Point Ga       Fax #:       Phone #:         Miguel Point C2       Fax #:       Matrix       PRESERV.         Sample I.D.       aiwo(c) wo gavel(c)       water work       Barting and	D. Box 301Company: Correct ofonState: NMZip: 882605) 396-2378Fax #: (575) 396-1429Address:Address: $SIO$ Project Owner:OARD PhillipsSmallsFoderal 8 HState:The net for a count g, NMPhone #:MarrixPreservMarrixPreservSample I.D.air of stateFl. 27 Q2'CIXAll 22CWw2CVw2Vw2CVw2CVw2CVw2Vw2Vw2Vw2Vw2 </td <td>D. Box 301       Company: Cono co Phyllips         on       State: NM       Zip: 88260         Signed 2378       Fax #: (575) 396-1429       Address:         Signed 200       Project Owner:       OARD Phyll(PS         Signed 201       84       State:       Zip:         In: Bural Loa County, NM       Phone #:       Fax #:         May use Paper Inc       Sumple I.D.       Natrix       PRESERV       Samplinks         Sample I.D.       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:         Sample I.D.       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:         Sample I.D.       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:         Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:         Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:&lt;</td> <td>D. 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Builder Billing         Builder Billing       Builder Billing         Builder Billing       Builder Billing         Sample I.D.       Builder Billing         Builder Billing       Builder Billing         State:       Sample Billing         Builder Billing       Builder Billing         Builder Billing       Builder Billing         Builder Billing       Builder Billing</td>	D. Box 301       Company: Cono co Phyllips         on       State: NM       Zip: 88260         Signed 2378       Fax #: (575) 396-1429       Address:         Signed 200       Project Owner:       OARD Phyll(PS         Signed 201       84       State:       Zip:         In: Bural Loa County, NM       Phone #:       Fax #:         May use Paper Inc       Sumple I.D.       Natrix       PRESERV       Samplinks         Sample I.D.       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:       Sum Volumer:         Sample I.D.       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**Revision 1.0** 

Received by OCD: 5/19/2021 7:54:19 AM



April 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SMALLS FEDERAL 8H

Enclosed are the results of analyses for samples received by the laboratory on 04/07/21 12:55.

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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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,

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 29 @ 2' (H210863-01)

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	04/07/2021	ND	2.04	102	2.00	2.63	
Toluene*	<0.050	0.050	04/07/2021	ND	2.00	99.8	2.00	2.91	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	04/08/2021	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	04/07/2021	ND	226	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	238	119	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.3	% 42.2-15	6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 30 @ 3' (H210863-02)

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	04/07/2021	ND	2.04	102	2.00	2.63	
Toluene*	<0.050	0.050	04/07/2021	ND	2.00	99.8	2.00	2.91	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50	
Total BTEX	<0.300	0.300	04/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	80.0	16.0	04/08/2021	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	04/07/2021	ND	226	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	238	119	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.5	% 42.2-15	6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 31 @ 3' (H210863-03)

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		04/07/2021	ND	2.04	102	2.00	2.63	
Toluene*	<0.050 0.050		04/07/2021	ND	2.00	99.8	2.00	2.91	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50	
otal BTEX <0.300 0.300		04/07/2021	ND						
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	192	16.0	04/08/2021 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	04/07/2021	ND	226	113	200	3.61	
DRO >C10-C28*	0 >C10-C28* <10.0 10.0		04/07/2021	ND	238	119	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane		% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.3 % 42.2-156		6						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 32 @ 4' (H210863-04)

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		04/07/2021	ND	2.04	102	2.00	2.63	
Toluene*	ene* <0.050 0.050		04/07/2021	ND	2.00	99.8	2.00	2.91	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50	
Total BTEX <0.300 0.300		04/07/2021	ND						
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 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	608	16.0	04/08/2021 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	04/07/2021	ND	226	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	238	119	200	3.25	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.6 % 42.2-156		6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 33 @ 4' (H210863-05)

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		04/07/2021	ND	2.04	102	2.00	2.63	
Toluene*	<0.050	0.050	04/07/2021	ND	2.00	99.8	2.00	2.91	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50	
otal BTEX <0.300 0.300		04/07/2021	ND						
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/08/2021 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	04/07/2021	ND	226	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	238	119	200	3.25	
EXT DRO >C28-C36 <10.0		10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	91.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.3 % 42.2-156		6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 34 @ 4' (H210863-06)

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		04/07/2021	ND	2.04	102	2.00	2.63	
Toluene*	<0.050	0.050	04/07/2021	ND	2.00	99.8	2.00	2.91	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50	
otal BTEX <0.300 0.300		04/07/2021	ND						
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	1260	16.0	04/08/2021	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	04/07/2021	ND	226	113	200	3.61	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	238	119	200	3.25	
EXT DRO >C28-C36 <10.0		10.0	04/07/2021	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.1 % 42.2-156		6						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/08/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	** (See Notes)
Project Number:	13810	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 35 @ 4' (H210863-07)

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		04/07/2021	ND	2.04	102	2.00	2.63		
Toluene*	<0.050 0.050		04/07/2021	ND	2.00	99.8	2.00	2.91		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.9	2.00	2.96		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.83	97.2	6.00	2.50		
otal BTEX <0.300 0.300		04/07/2021	ND							
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	864	16.0	04/08/2021	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	04/07/2021	ND	226	113	200	3.61		
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	238	119	200	3.25		
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND						
Surrogate: 1-Chlorooctane	90.0	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	88.2 % 42.2-156		6							

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Etech Environmental & Safety Solu	itions	i, Ind	<b>.</b>					1	B//	LT	0					ANALYSIS REQUE	ST
Project Manager	: Joel Lowry						P	.0. #										
Address: P.O.	. Box 301						c	omp	any	:Co	noco	PL	illips					
City: Lovingto	n State: NM	Zip	: 88	260				ttn:		00		1						
Phone #: (575	i) 396-2378 Fax #: (575)	396-1	429				A	ddre	SS:									
Project #: 139	Project Owne	er: {	201	-000	Ph	Ille	50	ity:		_								
Project Name:	Smalls Inderal 8 H						1	tate:			Zip:			0	(WS	18		
Project Location	"Roral Lea Dounty, Miguel Rumiver	NI	h				P	hone	#:					Chloride	TPH (8015M)	BTEX (8021B)		
Sampler Name:	Miguel Puplice						F	ax #:						CP	E	EX		
R LAB USE ONLY		T	Г		MA	TRIX	_	PR	ESE	RV.	SAM	PLI	IG		F	BT		
Lab I.D. H210863	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DAT	E	TIME					1 An
(	FFL 29 @ 2'	C	1		X			Γ	X		4/7			X	X	X		
2	FL 30 @3'	C	1		X				1		4/1			7	X	X		
3	FL31@3'	C	1		X				X		4/7/	_		X	X	X		
4	FL 32 Quy	C	1		and the second s				X		4/7			X	X	X		
5	FL 33@4'	C	i		X		_		X			121		X	X	K		
6	FL 34 @4'	C	1		X			+	X		417			X	X	X		
7	FL 35@4'	C	1	$\vdash$	K		-	+	X		4/1	21		A	X	X		
		+			+	+	-+-	-	+			-		-	-	-		
,		+	+	+	+	++	+	+	-	-		-		-	-	-		
	d Damages. Cardinal's liability and client's exclusive remody for						ratt or	int, she	i be is	mined to	o the amou	int paid	by the client for	the	1	-		
service. In no event shall C efficience or successors arise Relinquished B Relinquished B Relinquished B Delivered By	V: (Circle One)	Real Real	ut limit al, rega ecei	ation, bus rdless of ved E	whethe W: W: W: W: W: W: W: W: W: W:	e Con	ditio	ased up	cr fox		olis incurre	ted rea	Ind, Is substitu sons or othered Phone Re Fax Resu REMARK:	ne, sult: s: S: māil r		s to pr	No Add'I Phone #: No Add'I Fax #: Please Metecheny.com.	10
FORM-006		≠11 ardii	-			cept	_	al ch	ang	es.	Please	fax	V32 Written c	hange	Xu es to	T Z	a lab from fu	le

Page 99 of 109



April 12, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SMALLS FEDERAL 8H

Enclosed are the results of analyses for samples received by the laboratory on 04/09/21 17:00.

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

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.

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,

Celeg D. Keine

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:	04/09/2021	Sampling Date:	04/09/2021
Reported:	04/12/2021	Sampling Type:	Soil
Project Name:	SMALLS FEDERAL 8H	Sampling Condition:	Cool & Intact
Project Number:	13810	Sample Received By:	Jodi Henson
Project Location:	CONOCO PHILLIPS - LEA CO NM		

#### Sample ID: FL 7 @ 2.5' (H210910-01)

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	04/12/2021	ND	432	108	400	3.77	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

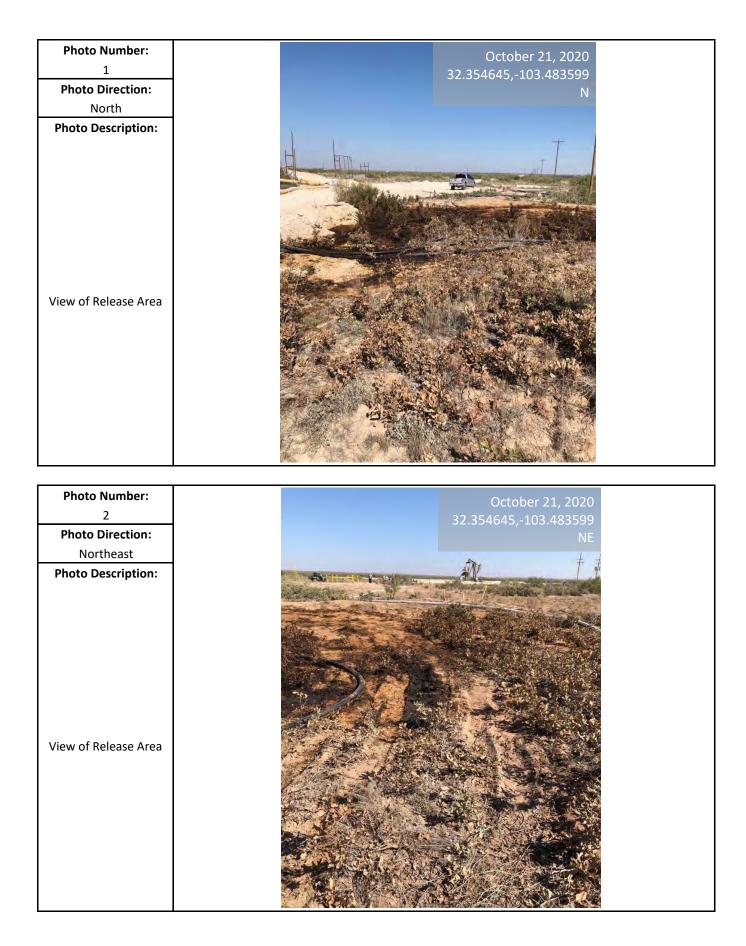
(575) 393-2326 FAX (575) 393-2476

Company Name		Safety Soluti	ions	, Inc							BI	LL TO						ANA	LYSI	S RE	EQUE	ST		
Project Manage	r: Joel Lowry							F	.0.	#:									1					
Address: P.C	). Box 301							Company: Conoco Phill					illips											
City: Lovingt	on St	tate: NM	Zip	882	260				Attn:				1											
Phone #: (57	5) 396-2378 Fa	ax #: (575) 39	396-1429				A	ddr	ess:															
Project #: 138	10 Pr	Project Owner: Cond co Ph. Nips					c	City:																
Project Name:	smalls Federal 8					s	State: Zip:					•	2W	BTEX (8021B)										
Project Locatio	n: Revelled Con	unte a	14					P	hon	e #:				Chioride	TPH (8015M)	(80								
<sup>c</sup> ampler Name:	n: Revert lea Cer Miguelkenn	une	-					F	ax #	ł:				Ē	H	EX								
OR LAB USE ONLY			-			MA	TRIX		Pf	RESE	ERV.	SAMPLI	NG		H	BT								
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
1	CL7@2.5'		C	ι		X			T	X	¢ 1	4/4/21		X										
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Delivered By Sampler - UPS FORM-006	: (Circle One) - Bus - Other: #113		_		C L	ool Ye No	Inta	Yes No		6		EO BY:	written d											_

Page 103 of 109

# Appendix D Photographic Log

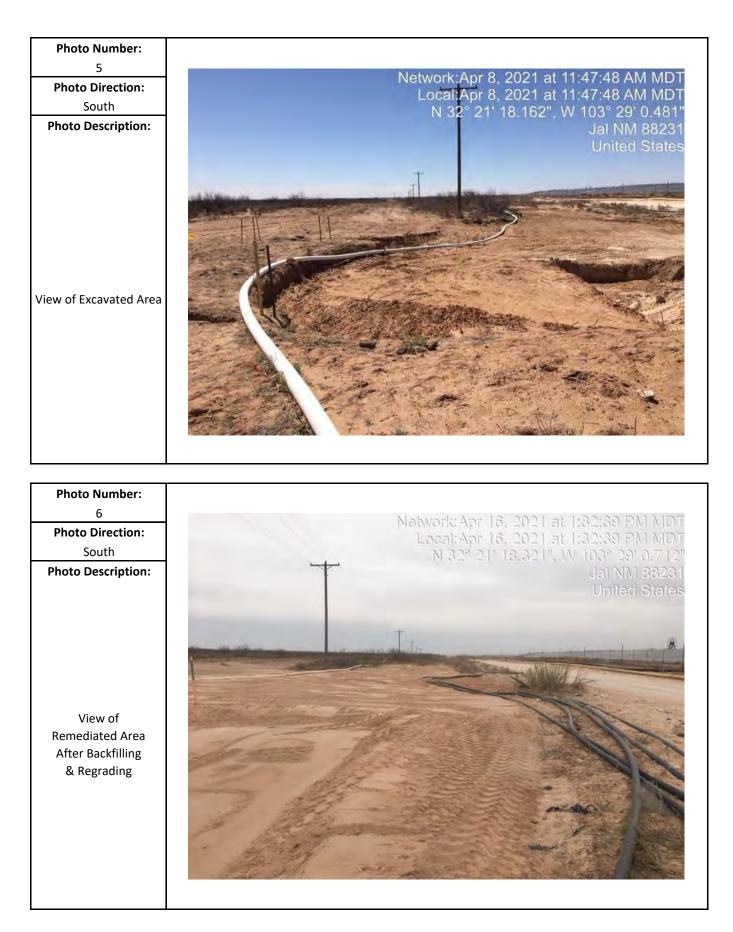
### Photographic Log



### Photographic Log







### Photographic Log



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

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

District III

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

District IV

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

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

CONDITIONS
------------

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	28756
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/3/2021

Page 109 of 109 CONDITIONS

Action 28756