

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?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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


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

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

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

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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: Dakota Neel Title: HSE Coordinator
Signature:  Date: 4/10/2020
email: dneel2@concho.com Telephone: 575-746-2010

OCD Only

Received by: _____ Date: _____

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Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dakota Neel Title: HSE Coordinator
Signature:  Date: 4/10/2020
email: dneel2@concho.com Telephone: 575-746-2010

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary and Soil Closure Request

COG Operating, LLC Craig State #3

Eddy County, New Mexico
Unit Letter C, Section 36, Township 25 South, Range 26 East
Latitude 32.092387 North, Longitude 104.249677 West
NMOCD Reference No. Pending

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260



Joel Lowry



Daniel Dominguez



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the Craig State #3. Details of the release are summarized below:

Location of Release Source

Latitude: 32.092387 Longitude: -104.249677

Provided GPS are in WGS84 format.

Site Name:	Craig State #3	Site Type:	Tank Battery
Date Release Discovered:	Pending	API # (if applicable):	30-015-41971

Unit Letter	Section	Township	Range	County
C	36	25S	26E	Eddy

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 0
	Is the concentration of dissolved chlorides in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
 The release was caused by a improper valve positioning.
 The release was in the pasture.

Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50 Ft.</u>		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

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

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 for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
~25	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On February 20, 2020, remediation activities commenced at the Site. In accordance with the NMOCD, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On February 24 and 25, 2020, Etech collected forty (40) excavation confirmation soil samples. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were approximately 150 ft. in length, 40 ft. to 75 ft. in width and ranged from 3 ft to 5.5 ft. in depth. During the course of remediation activities approximately 1,300 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency 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-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Craig State #3 Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Workplan 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. Basis 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 within 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 2
811 S. First Street
Artesia, NM 88210*

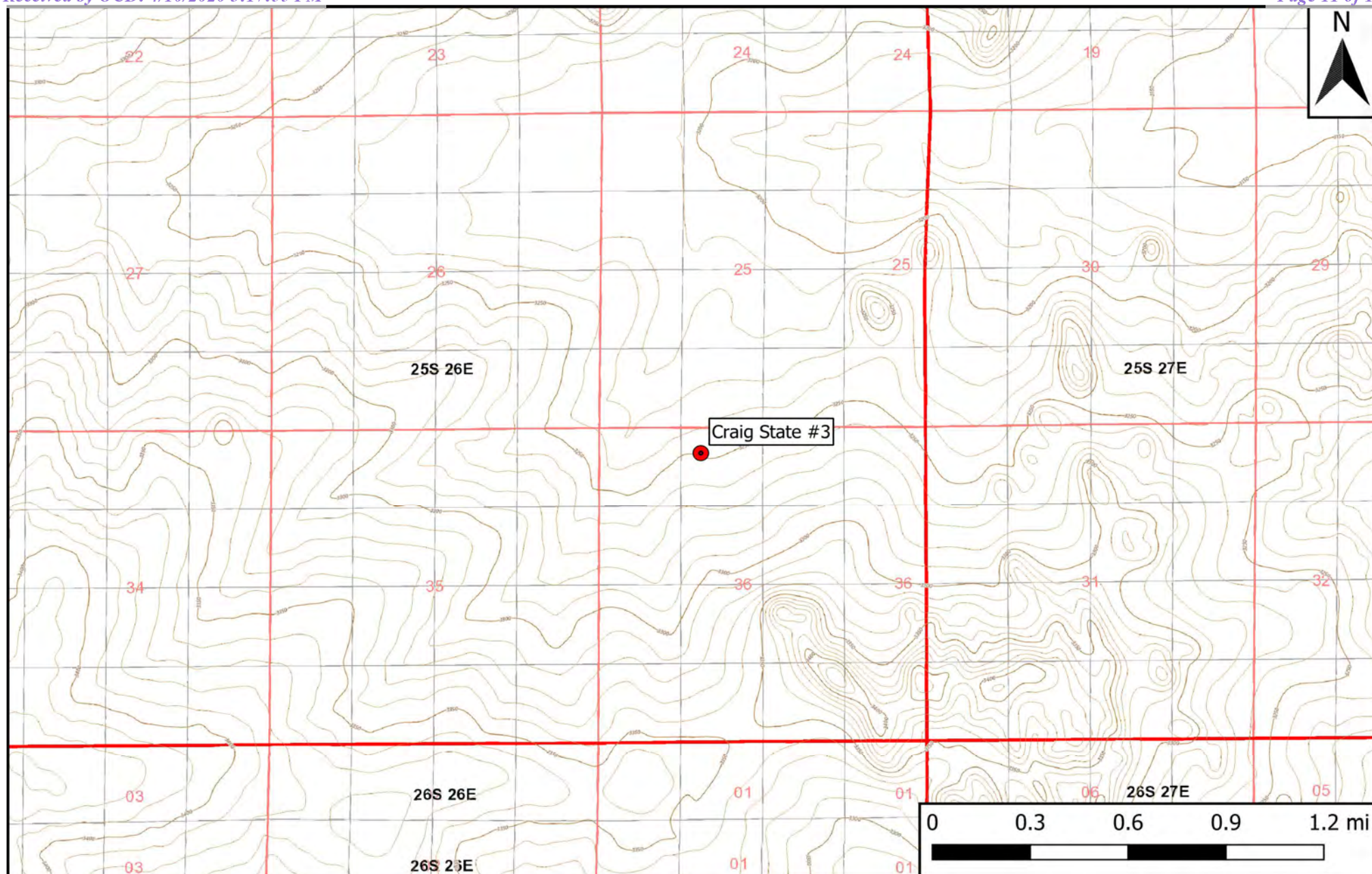
United States Department of the Interior

*Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220*

(Electronic Submission)

Figure 1

Topographic Map



Legend

● Site Location

Figure 1

Topographic Map
COG Operating, LLC
Craig State #3
GPS: 32.092387, -104.249677
Eddy County



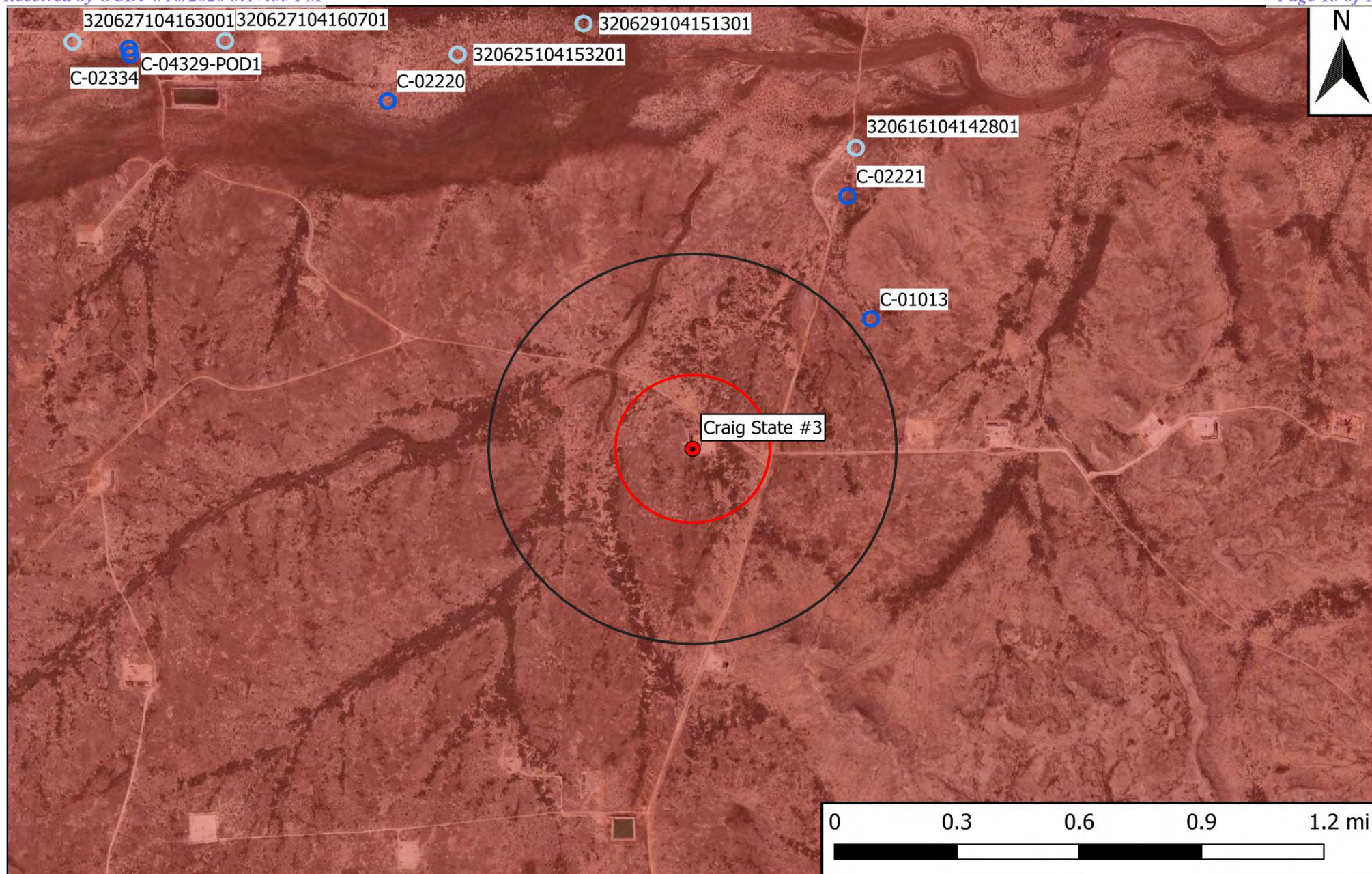
Drafted: mag

Checked: jwl

Date: 1/13/20

Figure 2

Aerial Proximity Map



Legend

- Site Location
- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Surface Water
- Well - USGS
- Well - NMOSE
- High Karst
- Medium Karst
- Potash Mine Workings

Figure 2
 Aerial Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County



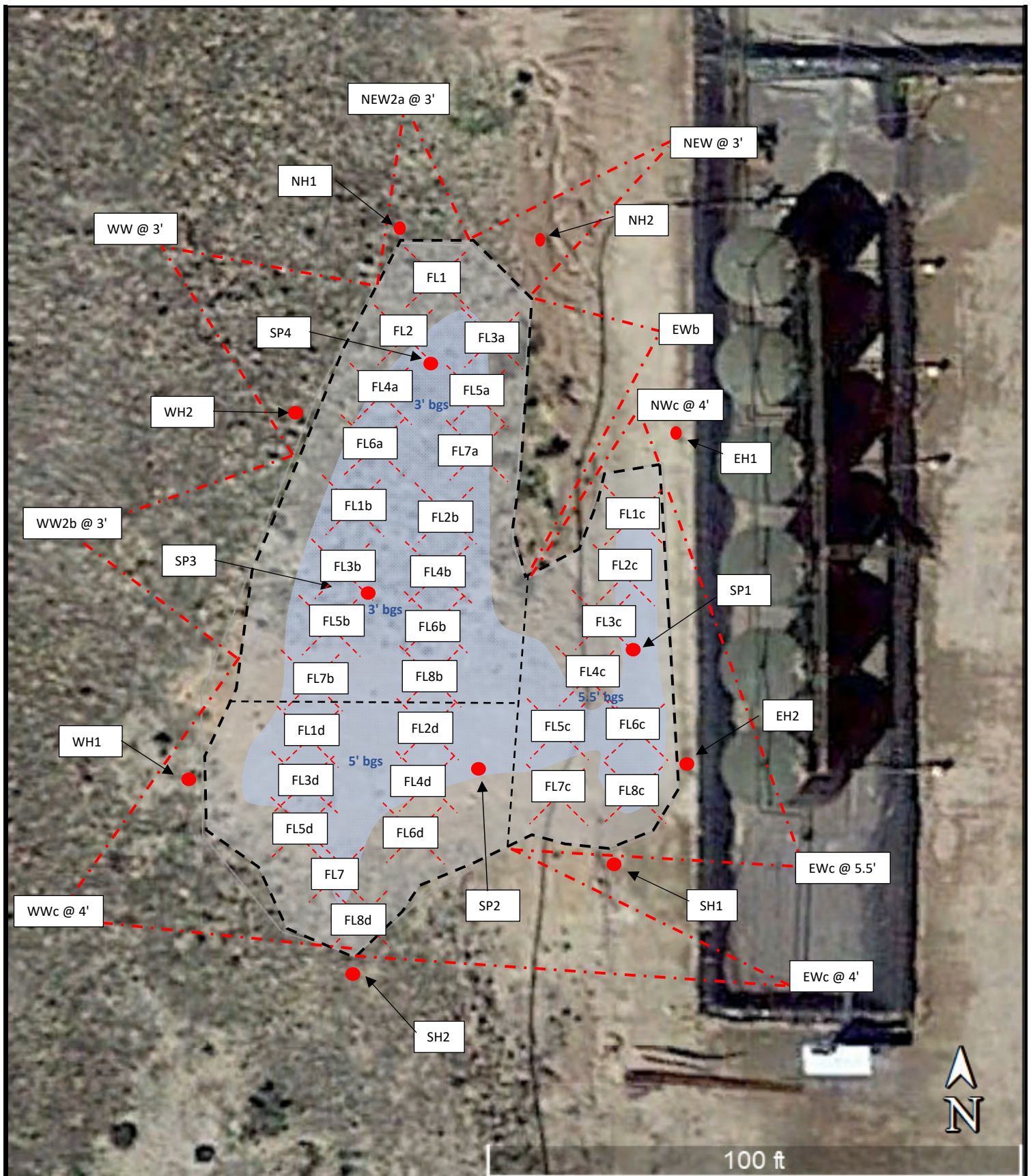
Drafted: mag

Checked: jwl

Date: 1/13/20

Figure 3

Site and Sample Location Map



- Legend:**
- Affected Area
 - Sample Point
 - Composite Sample
 - Excavated Area

Figure 3
 Site and Sample Location Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County



Drafted: dd
 Checked: jwl Date: 3/30/20

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Craig State #3
NMOCD Ref. #: Pending

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
NH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
NH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
NH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
EH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
EH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
EH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
SH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
SH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
SH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WH 1 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WH 1 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
WH 2 @ Surf	1/9/20	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
WH 2 @ 1'	1/9/20	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP 1 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	21,200
SP 1 @ 4'	1/10/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SP 2 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	26.6	26.6	<10.0	26.6	22,800
SP 2 @ 4'	1/10/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 3 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48
SP 3 @ 1'	1/9/20	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
SP 4 @ Surf	1/9/20	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,600
SP 4 @ 2'	1/9/20	2'	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	928
FL 1 @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64
FL 2 @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NEW @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 1b @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 2b @ 3'	2/24/20	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW b @ 3'	2/24/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 1C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
NW C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW C @ 4'	2/24/20	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 1d @ 2'	2/24/20	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 3 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80
FL 4 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 5 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 6 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96
FL 7 A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32
FL 3 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- =

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Craig State #3
NMOCD Ref. #: Pending

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 C1
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 4 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 5 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 6 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 7 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 8 b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 2 C @ 4.5'	2/25/20	4.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 3 C @ 4.5'	2/25/20	4.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 4 C @ 4.5'	2/25/20	4.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 5 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 6 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 7 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 8 C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 2 D @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 3 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 4 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 5 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 6 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 7 @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 8 d @ 5'	2/25/20	5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW C @ 5.5'	2/25/20	5.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
NEW 2A @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW 2b @ 3'	2/25/20	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
Closure Criteria				10	50	-	-	N/A	-	100	600

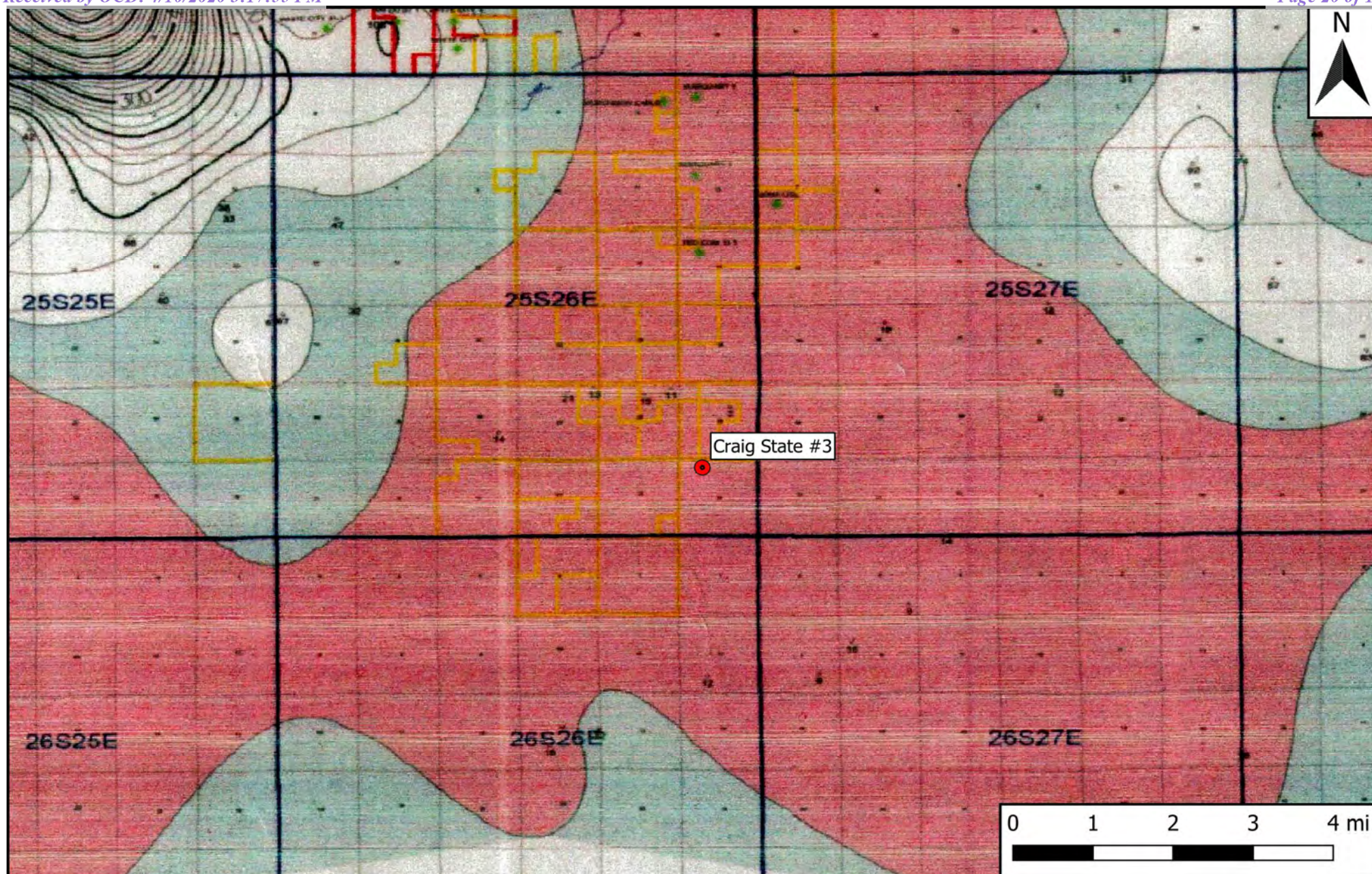
NOTES:

- =

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend

● Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 COG Operating, LLC
 Craig State #3
 GPS: 32.092387, -104.249677
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 1/13/20



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

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

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 01013		C	ED			4	25	25S	26E	571505	3551456*	882	245		
C 02221		CUB	ED	4	3	2	25	25S	26E	571412	3551961*	1204	35		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTM NAD83 Radius Search (in meters):

Easting (X): 570801.75

Northing (Y): 3550922.48

Radius: 1610

*UTM location was derived from PLSS - see Help

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

1/13/20 8:29 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02221	4	3	2	25	25S	26E	571412	3551961*



x

Driller License:**Driller Company:****Driller Name:** J D FOREHAND**Drill Start Date:****Drill Finish Date:** 11/15/1914**Plug Date:****Log File Date:****PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:** 7 GPM**Casing Size:** 6.50**Depth Well:** 35 feet**Depth Water:**

x

*UTM location was derived from PLSS - see Help

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

1/13/20 8:29 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01013				4	25	25S 26E	571505	3551456*

x

Driller License: 24 **Driller Company:** BRININSTOOL, M.D.

Driller Name: HOWARD HEMLER

Drill Start Date: 06/10/1961	Drill Finish Date: 06/17/1961	Plug Date:
Log File Date: 07/12/1961	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 7.00	Depth Well: 245 feet	Depth Water:

x

Water Bearing Stratifications:

Top	Bottom	Description
153	165	Shale/Mudstone/Siltstone
180	198	Limestone/Dolomite/Chalk
228	238	Limestone/Dolomite/Chalk

x

Casing Perforations:

Top	Bottom
203	245

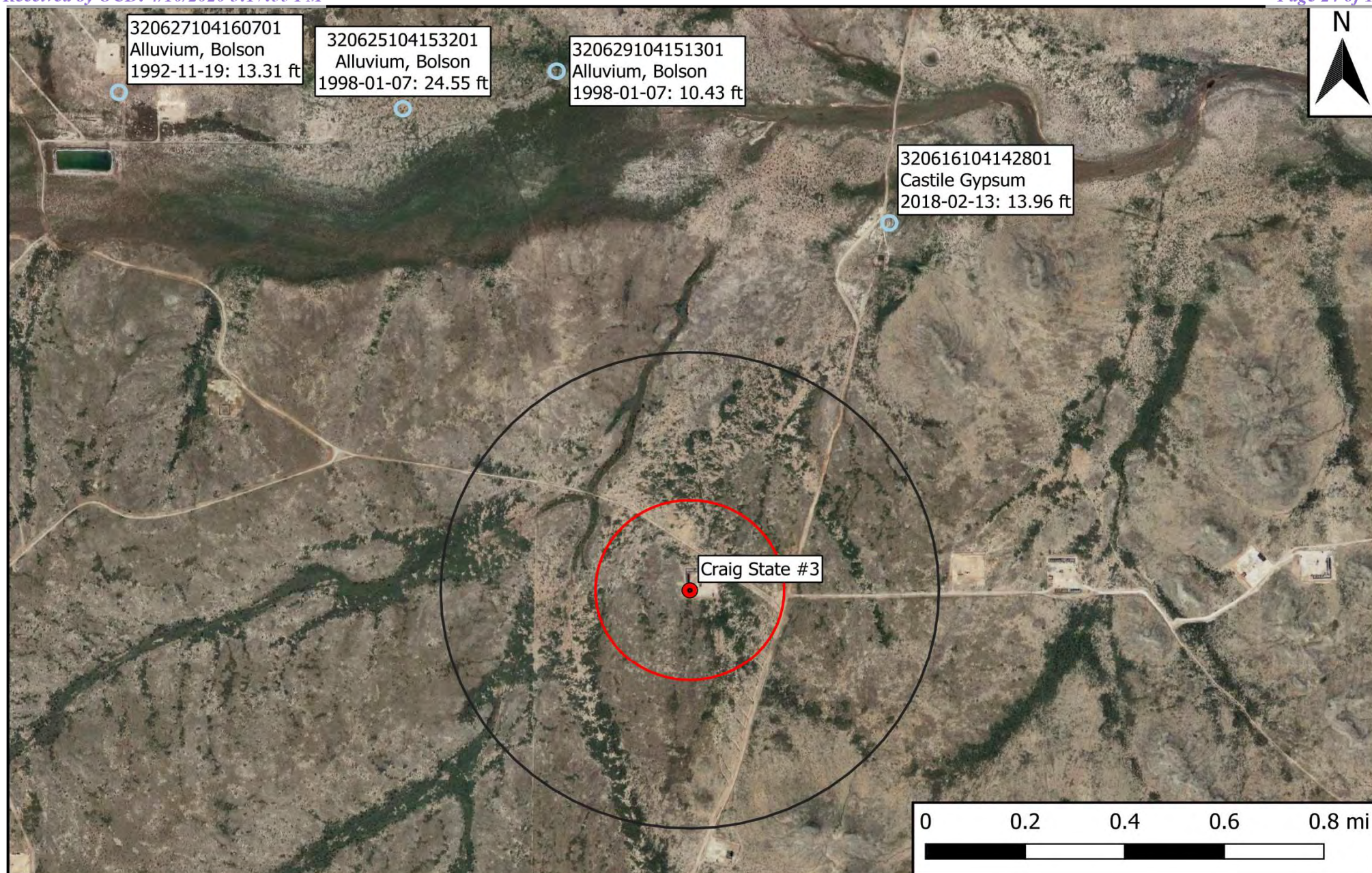
x

*UTM location was derived from PLSS - see Help

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

1/13/20 8:29 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5

USGS Well Proximity Map
COG Operating, LLC
Craig State #3
GPS: 32.092387, -104.249677
Eddy County



Drafted: mag

Checked: jwl

Date: 1/13/20



National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320616104142801

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320616104142801 25S.26E.25.23231

Available data for this site

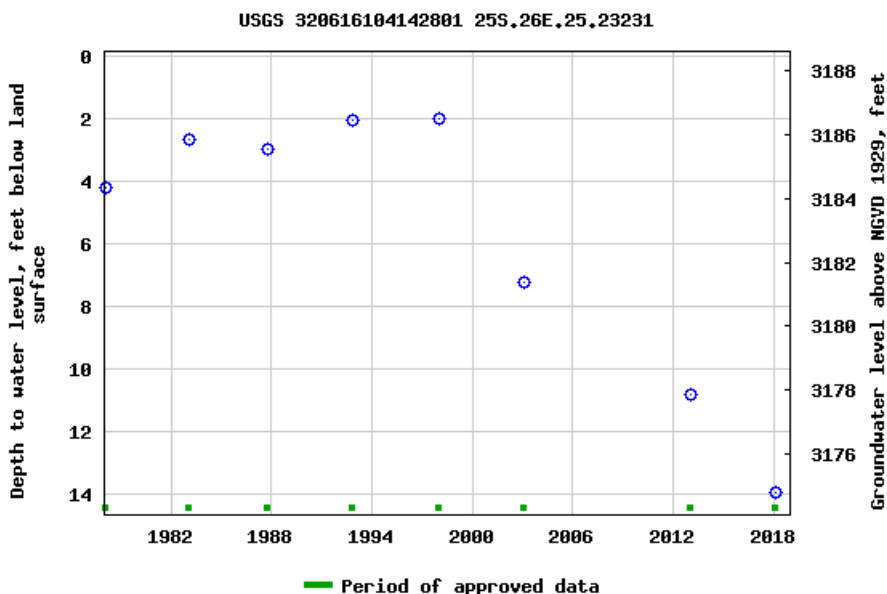
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°06'12.6", Longitude 104°14'33.9" NAD83
Land-surface elevation 3,188.60 feet above NGVD29
This well is completed in the Castile Gypsum (312CSTL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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Page Last Modified: 2020-01-13 10:25:12 EST

0.54 0.46 nadww02



National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
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Agency code = usgs
site_no list =

- 320625104153201

Minimum number of levels = 1
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USGS 320625104153201 25S.26E.26.213213

Available data for this site

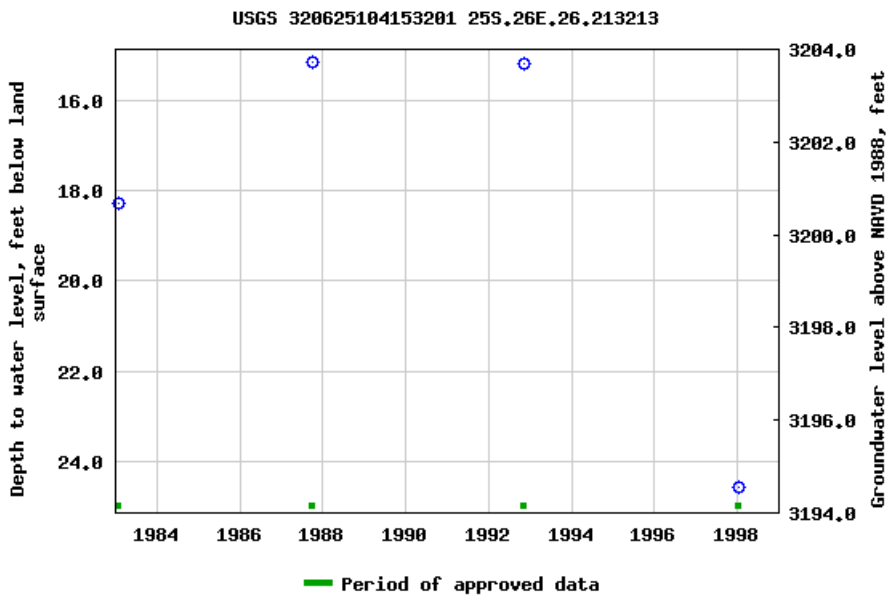
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°06'25", Longitude 104°15'32" NAD27
Land-surface elevation 3,219 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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0.53 0.47 nadww02



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320627104160701

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320627104160701 25S.26E.27.22200

Available data for this site

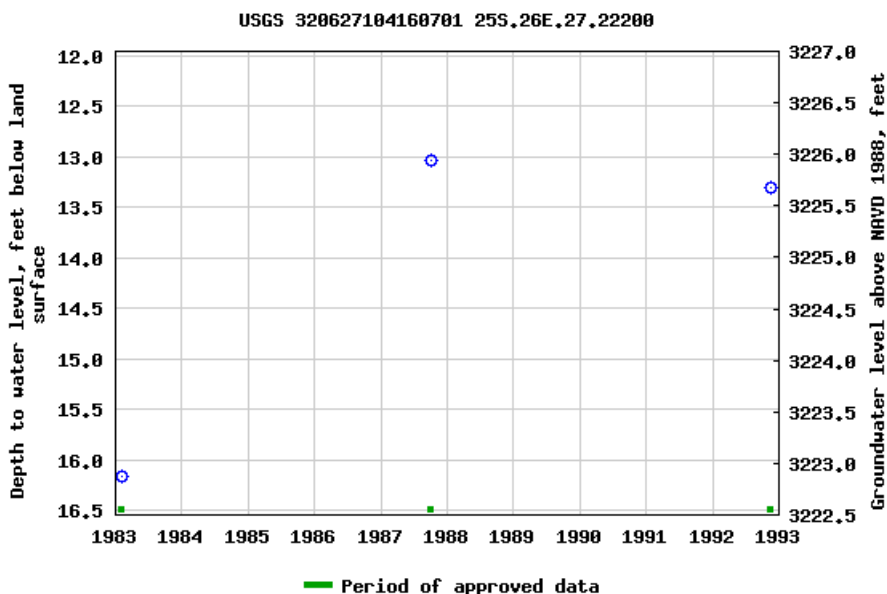
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°06'27", Longitude 104°16'07" NAD27
Land-surface elevation 3,239 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



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0.51 0.46 nadww02



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320629104151301

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

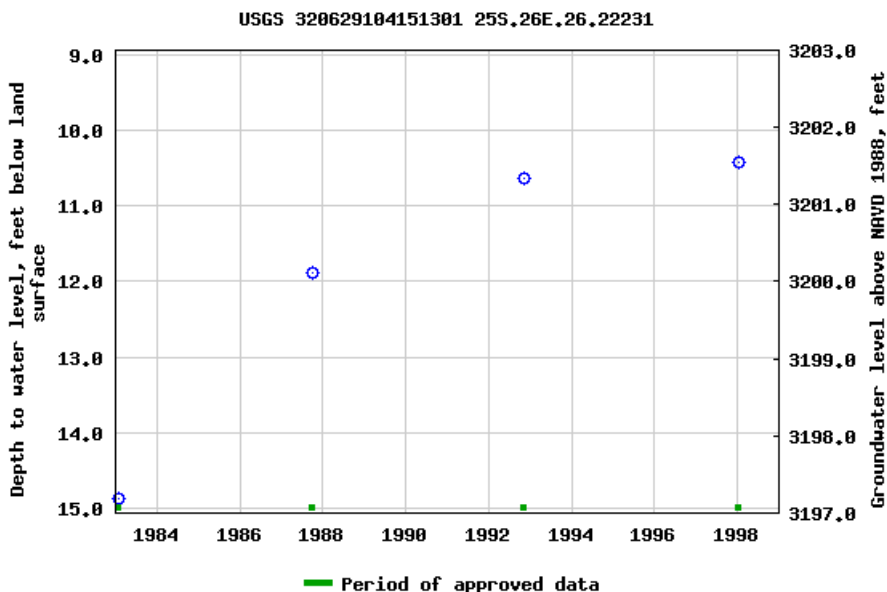
USGS 320629104151301 25S.26E.26.22231

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°06'29", Longitude 104°15'13" NAD27
Land-surface elevation 3,212 feet above NAVD88
The depth of the well is 16 feet below land surface.
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



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Appendix B

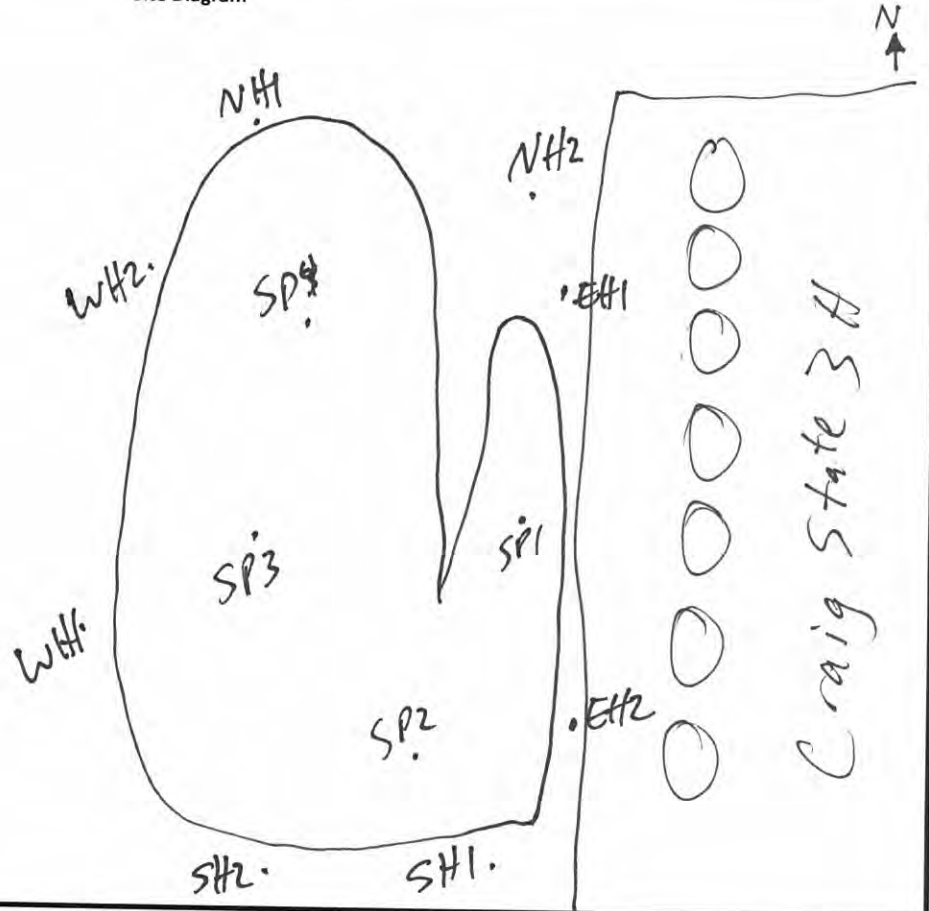
Field Data and Soil Profile Logs



Initial Release Assessment Form

Project: Craig State #3 Date: 1.1.20
 Project Number: 11733 Clean Up Level: 0
 Latitude: 32.092387 Longitude: -104.249677

Site Diagram



Notes: collect samples and delineate release area; field screen samples; photograph area

~Length: 150 ~Width: 75 ~Area: ~Depth: 1'-4'

3-4 Representative Pictures of the Affected Area including sample locations?

Necessary Samples Field Screened and on Ice?

Sample and Field Screen Data Entered on Sample Log?

Was horizontal and vertical delineation achieved?

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>



Sample Log

Date:

1.9.20

Project: Craig State #3

Project Number: 11733

Latitude: 32.092387

Longitude: -104.249677

Sample ID	PID/Odor	Chloride Conc.	GPS
NH1 @ surface	None	120 11:30	
NH1 @ 1'	None	120 11:40	
NH2 @ surface	None	120 11:50	
NH2 @ 1'	None	120 12:00	
EH1 @ surface	None	120 12:10	
EH1 @ 1'	None	120 12:20	
EH2 @ surface	None	120 12:30	
EH2 @ 1'	None	120 12:40	
SH1 @ surface	None	120 12:50	
SH1 @ 1'	None	304 1:00	
SH2 @ surface	None	120 1:10	
SH2 @ 1'	None	120 1:20	
WH1 @ surface	None	120 1:30	
WH1 @ 1'	None	120 1:40	
WH2 @ surface	None	120 1:50	
WH2 @ 1'	None	352 2:00	
SP1 @ surface	Slight	- 2:10	
SP1 @ 1'	None	2592 2:20	
SP2 @ surface	Slight	- 2:30	
SP2 @ 1'	None	2592 2:40	
SP3 @ surface	Slight	- 2:50	
SP3 @ 1'	None	432 3:00	
SP4 @ surface	Slight	- 3:10	
SP4 @ 1'	None	2592 3:20	
SP1 @ 2'	None	2592 3:30	
SP2 @ 2'	None	2592 1626 3:40	
SP4 @ 2'	None	344 3:50	
SP1 @ 3'	None	636 4:00	
SP2 @ 3'	None	2592 896 4:10	
SP1 @ 4'	None	204 1.10.20 9:00	
SP2 @ 4'	None	432 1.10.20 9:30	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: 1.9.20Project: Craig State #3Project Number: 11733 Latitude: 32.092387 Longitude: -104.249677

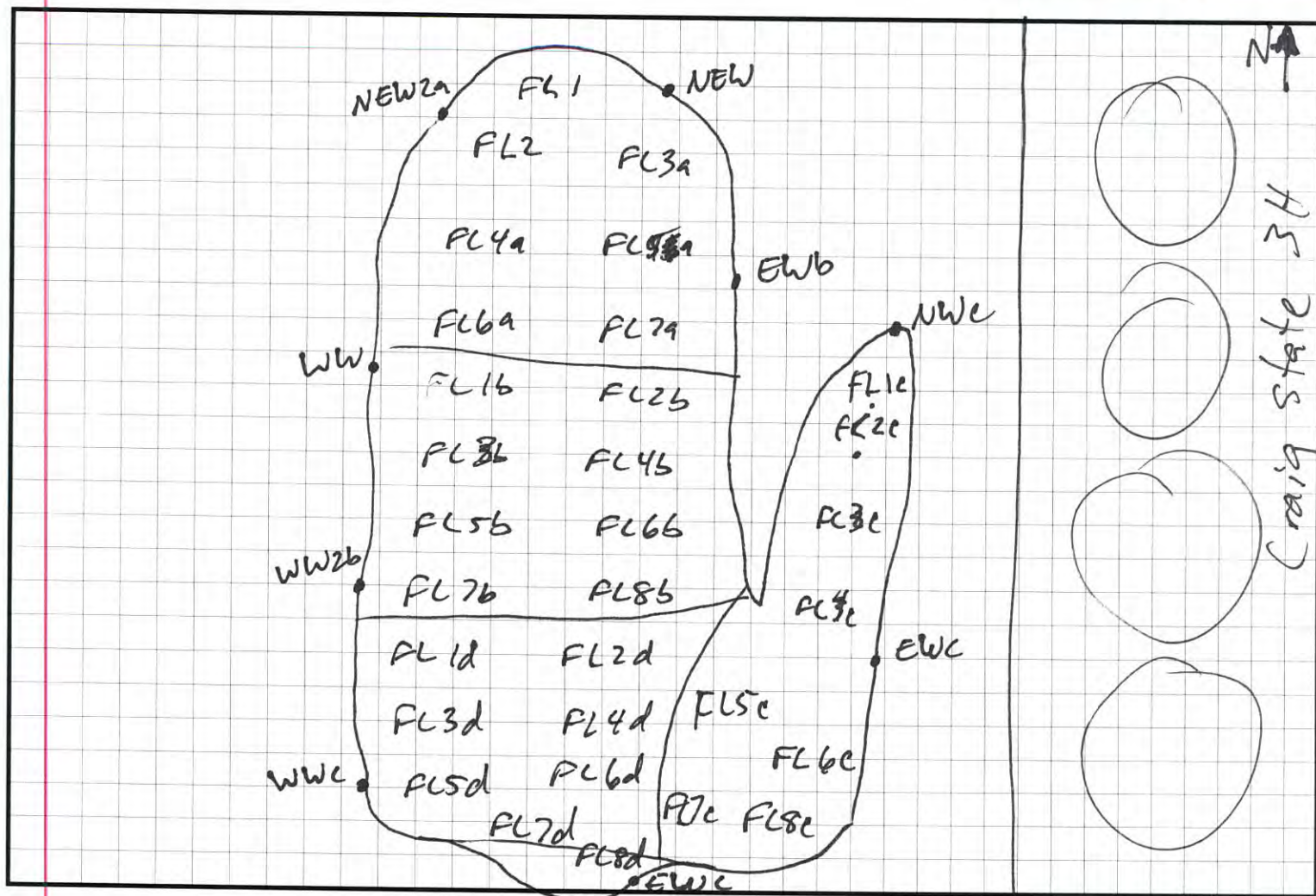
Depth (ft. bgs)

Description

1	Caliche	Caliche' on top with discoloration to the pad
2	brown	red and yellow stain. had to use rock bar
3	red	
4	red	
5		
6		
7		
8		
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40		

FIELD NOTES

Site Name: Craig State #3

Date: 2-24-20
2-25-20

collect confirmation samples from excavation

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride



Sample Log

Date: 2-25-20Project: Craig St. #34Project Number: 11737Latitude: 32.092387Longitude: -104.249677

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1A @ 3'		496	
FL2A @ 3'		580	
FL3A @ 3'		496	
FL4A @ 3'		580	
FL5A @ 3'		204	
FL6A @ 3'		204	
FL7A @ 3'		120	
FL8A @ 3'		120	
FL1b @ 3'		304	
FL2b @ 3'		304	
FL3b @ 3'		344	
FL4b @ 3'		268	
FL5b @ 3'		388	
FL6b @ 3'		432	
FL7b @ 3'		388	
FL8b @ 3'		236	
FL1C @ 4 1/2'		580	
FL2C @ 4 1/2'		580	
FL3C @ 4 1/2'		132	
FL4C @ 4 1/2'		432	
FL5C @ 5 1/2'		172	
FL6C @ 5 1/2'		268	
FL7C @ 5 1/2'		236	
FL8C @ 5 1/2'		236	
FL1d @ 5'		432	
FL2d @ 5'		344	
FL3d @ 5'		268	
FL4d @ 5'		388	
FL5d @ 5'		204	
FL6d @ 5'		236	
FL7d @ 5'		388	
FL8d @ 5'		304	
NEWA2 @ 3'		204	
WW62 @ 3'			
EW2 @ 5 1/2'			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Laboratory Analytical Reports



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

January 16, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: CRAIG STATE 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/13/20 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 1 @ SURFACE (H000114-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 1 @ 1' (H000114-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTX	<0.300	0.300	01/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 2 @ SURFACE (H000114-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTEX	<0.300	0.300	01/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NH 2 @ 1' (H000114-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 1 @ SURFACE (H000114-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTX	<0.300	0.300	01/14/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 1 @ 1' (H000114-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 2 @ SURFACE (H000114-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTX	<0.300	0.300	01/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EH 2 @ 1' (H000114-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 1 @ SURFACE (H000114-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTX	<0.300	0.300	01/14/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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 Lovington NM, 88260
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Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 1 @ 1' (H000114-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTEX	<0.300	0.300	01/14/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 2 @ SURFACE (H000114-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTX	<0.300	0.300	01/14/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

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 JOEL LOWRY
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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SH 2 @ 1' (H000114-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865		
Total BTEX	<0.300	0.300	01/14/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 1 @ SURFACE (H000114-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/15/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.22	104	6.00	0.865	
Total BTX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 1 @ 1' (H000114-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2020	ND	2.10	105	2.00	1.47		
Toluene*	<0.050	0.050	01/15/2020	ND	2.12	106	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.13	106	2.00	0.643		
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.22	104	6.00	0.865		
Total BTEX	<0.300	0.300	01/15/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 2 @ SURFACE (H000114-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/15/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.22	104	6.00	0.865	
Total BTX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.1 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WH 2 @ 1' (H000114-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147

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 Fax To: (575) 396-1429

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H000114-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/10/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 1 @ 4' (H000114-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEx	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H000114-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTX	<0.300	0.300	01/15/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22800	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	26.6	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	01/13/2020	Sampling Date:	01/10/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 2 @ 4' (H000114-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60		
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63		
Total BTEX	<0.300	0.300	01/15/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H000114-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEx	<0.300	0.300	01/15/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 3 @ 1' (H000114-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60		
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63		
Total BTEX	<0.300	0.300	01/15/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 4 @ SURFACE (H000114-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60		
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63		
Total BTEx	<0.300	0.300	01/15/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	01/13/2020	Sampling Date:	01/09/2020
Reported:	01/16/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: SP 4 @ 2' (H000114-24)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60		
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76		
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63		
Total BTEX	<0.300	0.300	01/15/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	01/15/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	194	97.0	200	2.18	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	227	114	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Etech Environmental & Safety Solutions, Inc.

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST																		
Project Manager: Joel Lowry		Company: Concho																						
Address: P.O. Box 301		Attn:																						
City: Lovington		State: NM		Zip: 88260																				
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																				
Project #: 11733		Project Owner: Concho		City:																				
Project Name: Craig State 3H		State:		Zip:																				
Project Location: Rural Eddy		Phone #:																						
Sampler Name: Hector Villa		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
11	SH2 @ Surf	g	1	x									1/9/20	13:10	x	x	x							
12	SH2 @ 1'	g	1	x									1/9/20	13:20	x	x	x							
13	WH1 @ Surf	g	1	x									1/9/20	13:30	x	x	x							
14	WH1 @ 1'	g	1	x									1/9/20	13:40	x	x	x							
15	WH2 @ Surf	g	1	x									1/9/20	13:50	x	x	x							
16	WH2 @ 1'	g	1	x									1/9/20	14:00	x	x	x							
17	SP1 @ Surf	g	1	x									1/9/20	14:10	x	x	x							
18	SP1 @ 4'	g	1	x									1/10/20	9:00	x	x	x							
19	SP2 @ Surf	g	1	x									1/9/20	14:30	x	x	x							
20	SP2 @ 4'	g	1	x									1/10/20	9:30	x	x	x							

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Relinquished By: *Walt L...* Date: *1-13-20* Time: *16:30*
Received By: *Yvonne...*

Delivered By: (Circle One) *#113* - UPS *- 0.4* - Other: *TO*

Sample Condition: Cool ☒ Intact ☒
Yes ☒ No ☐ Yes ☐ No ☐

CHECKED BY: (Initials) *TO*

Please email results to pm@etechenv.com.

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

REMARKS:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

February 27, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: CRAIG STATE 3H

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 8:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 A @ 3' (H000605-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 A @ 3' (H000605-04)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 A @ 3' (H000605-05)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTX	<0.300	0.300	02/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 A @ 3' (H000605-06)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.3 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 A @ 3' (H000605-07)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEx	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 A @ 3' (H000605-08)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEx	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 b @ 3' (H000605-11)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 b @ 3' (H000605-12)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEx	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.4 % 42.2-156

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 b @ 3' (H000605-13)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEx	<0.300	0.300	02/26/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 b @ 3' (H000605-14)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.2 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 b @ 3' (H000605-15)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.8 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 b @ 3' (H000605-16)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.1 % 42.2-156

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Analytical Results For:

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 P.O. Box 301
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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2 C @ 4.5' (H000605-18)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09	
Total BTX	<0.300	0.300	02/26/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 C @ 4.5' (H000605-19)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/26/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	208	104	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	230	115	200	0.144	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 C @ 4.5' (H000605-20)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/26/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/26/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/26/2020	ND	5.84	97.3	6.00	7.09		
Total BTX	<0.300	0.300	02/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 C @ 5.5' (H000605-21)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 C @ 5.5' (H000605-22)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41	
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 C @ 5.5' (H000605-23)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09		
Total BTEX	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 C @ 5.5' (H000605-24)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.98	98.9	2.00	6.41		
Toluene*	<0.050	0.050	02/27/2020	ND	1.99	99.3	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	2.01	101	2.00	6.85		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.84	97.3	6.00	7.09		
Total BTX	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/27/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2 D @ 5' (H000605-26)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTX	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/27/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 3 d @ 5' (H000605-27)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEx	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 4 d @ 5' (H000605-28)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEx	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 5 d @ 5' (H000605-29)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 6 d @ 5' (H000605-30)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEx	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/26/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/26/2020	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 7 @ 5' (H000605-31)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTX	<0.300	0.300	02/27/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/27/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.8 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 8 d @ 5' (H000605-32)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EW C @ 5.5' (H000605-33)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEx	<0.300	0.300	02/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NEW 2A @ 3' (H000605-34)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTEx	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/25/2020
Reported:	02/27/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WW 2b @ 3' (H000605-35)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14		
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27		
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17		
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24		
Total BTX	<0.300	0.300	02/27/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				BILL TO		ANALYSIS REQUEST																					
Project Manager: Joel Lowry				P.O. #:																							
Address: 3100 Plains Hwy				Company: COG																							
City: Lovington		State: NM		Zip: 88260		Attn: Dakota Neel																					
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:																							
Project #: 11733		Project Owner: COG				City:																					
Project Name: Craig St. #3H						State:		Zip:																			
Project Location: Eddy						Phone #:																					
Sampler Name: Hector Ollg						Fax #:																					
FOR LAB USE ONLY				MATRIX						PRESERV.		SAMPLING		Chloride	TPH	BTEX 8021											
Lab I.D.	Sample I.D.	(GRAB OR C/MOF)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE				TIME										
H000605		C	1			X					X		1-25-20		X	X	X	NO SAMPLE									
1	FL1A@3'	C	1			X					X		1-25-20		X	X	X										
2	FL2A@3'	C	1			X					X		1-25-20		X	X	X										
3	FL3A@3'	C	1			X					X		1-25-20		X	X	X										
4	FL4A@3'	C	1			X					X		1-25-20		X	X	X										
5	FL5A@3'	C	1			X					X		1-25-20		X	X	X										
6	FL6A@3'	C	1			X					X		1-25-20		X	X	X										
7	FL7A@3'	C	1			X					X		1-25-20		X	X	X										
8	FL8A@3'	C	1			X					X		1-25-20		X	X	X										
		C	1			X					X		1-25-20		X	X	X										
		C	1			X					X		1-25-20		X	X	X										

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Relinquished By: [Signature]		Date: 2/26/20	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: 08:50			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:	Received By:		REMARKS: Email results to PM@Etechenv.com			
		Time:						
Delivered By: (Circle One)			Sample Condition		CHECKED BY: (Initials) [Signature]			
Sampler - UPS - Bus - Other: -6.8°C #113			Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No					

Client Contacts
 Samples taken off
 COC per Joel L.
 Rush

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST												
Project Manager: Joel Lowry		P.O. #:														
Address: 3100 Plains Hwy		Company: COG														
City: Lovington State: NM Zip: 88260		Attn: Dakota Neel														
Phone #: 575-396-2378 Fax #: 575-396-1429		Address:														
Project #: 11733 Project Owner: COG		City:														
Project Name: Craig St. #34		State: Zip:														
Project Location: Eddy		Phone #:														
Sampler Name: Hector Uilla		Fax #:														
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	GRAB OR (COMF)	MATRIX	PRESERV.	SAMPLING											
		# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021							
H000605	9 FL 16 @ 3'	C 1	X		1-25-20		X	X	X	NO Sample						
	10 FL 26 @ 3'	C 1	X		1-25-20		X	X	X							
	11 FL 36 @ 3'	C 1	X		1-25-20		X	X	X							
	12 FL 46 @ 3'	C 1	X		1-25-20		X	X	X							
	13 FL 56 @ 3'	C 1	X		1-25-20		X	X	X							
	14 FL 66 @ 3'	C 1	X		1-25-20		X	X	X							
	15 FL 76 @ 3'	C 1	X		1-25-20		X	X	X							
	16 FL 86 @ 3'	C 1	X		1-25-20		X	X	X							

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Relinquished By: <i>Mateo</i>	Date: 2/26/20	Received By: <i>Tamara Alda</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 09:58	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS: Email results to PM@Etechen.com	
Sampler - UPS - Bus - Other: -6.8c #113		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Client Contacts	
		CHECKED BY: (Initials) <i>Rush</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST																			
Project Manager: Joel Lowry		P.O. #:																					
Address: 3100 Plains Hwy		Company: COG																					
City: Lovington State: NM Zip: 88260		Attn: Dakota Neel																					
Phone #: 575-396-2378 Fax #: 575-396-1429		Address:																					
Project #: 11737 Project Owner: COG		City:																					
Project Name: Craig St. #3H		State: Zip:																					
Project Location: Eddy		Phone #:																					
Sampler Name: Hector Villa		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chloride	TPH	BTEX 8021										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:										ICE / COOL	OTHER :	DATE	TIME
H000605	17 PL1C @ 4 1/2	C	1			X							1-25-20		X	X	X	NO Sample					
	18 PL2C @ 4 1/2	C	1			X							1-25-20		X	X	X						
	19 PL3C @ 4 1/2	C	1			X							1-25-20		X	X	X						
	20 PL4C @ 4 1/2	C	1			X							1-25-20		X	X	X						
	21 PL5C @ 5 1/2	C	1			X							1-25-20		X	X	X						
	22 PL6C @ 5 1/2	C	1			X							1-25-20		X	X	X						
	23 PL7C @ 5 1/2	C	1			X							1-25-20		X	X	X						
	24 PL8C @ 5 1/2	C	1			X							1-25-20		X	X	X						
	25 FL10 @ 5'	C	1			X							1-25-20		X	X	X	NO Sample					
	26 PL20 @ 5'	C	1			X							1-25-20		X	X	X						

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Relinquished By: <i>[Signature]</i>	Date: 2-26-30 Time: 6:58	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -6.8c #113			REMARKS: Email results to PM@Etechenv.com	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: (Initials) J.O.	
Client Contacts <i>Rush</i>				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

March 02, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: CRAIG STATE 3H

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 8:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1 @ 3' (H000610-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33	
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94	
Total BTX	<0.300	0.300	02/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2 @ 3' (H000610-02)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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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:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NEW @ 3' (H000610-03)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.1 % 42.2-156

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Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WW @ 3' (H000610-04)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1b @ 3' (H000610-05)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 2b @ 2' (H000610-06)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EW b @ 3' (H000610-07)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1C @ 4' (H000610-08)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	216	108	200	5.42	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	229	115	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 396-1429

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: NW C @ 4' (H000610-09)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/28/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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Analytical Results For:

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Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: EW C @ 4' (H000610-10)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: WW C @ 4' (H000610-11)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTEX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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:	02/26/2020	Sampling Date:	02/24/2020
Reported:	03/02/2020	Sampling Type:	Soil
Project Name:	CRAIG STATE 3H	Sampling Condition:	Cool & Intact
Project Number:	11733	Sample Received By:	Tamara Oldaker
Project Location:	CONCHO - EDDY CO NM		

Sample ID: FL 1d @ 2' (H000610-12)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2020	ND	1.78	88.8	2.00	8.33		
Toluene*	<0.050	0.050	02/28/2020	ND	1.79	89.4	2.00	8.44		
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.79	89.6	2.00	8.66		
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.26	87.7	6.00	8.94		
Total BTX	<0.300	0.300	02/28/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/28/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>COG Operating LLC.</u>				BILL TO				ANALYSIS REQUEST																																	
Project Manager: <u>Joel Lawry</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																																	
Address: <u>7100 Plains Hwy</u>				Company: <u>COG</u>																																					
City: <u>Lawington</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Dakota Noel</u>																																					
Phone #: <u>575-396-2378</u> Fax #: <u>575-396-1429</u>				Address:																																					
Project #: <u>11733</u> Project Owner: <u>COG</u>				City:																																					
Project Name: <u>Craig St. #314</u>				State: Zip:																																					
Project Location:				Phone #:																																					
Sampler Name: <u>Heeter Villa</u>				Fax #:																																					
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
<u>H000610</u>				<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>7:00</u>		<u>*</u>											
<u>1</u>		<u>FL1@3'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>7:30</u>		<u>↓</u>											
<u>2</u>		<u>FL2@3'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>8:00</u>		<u>↓</u>											
<u>3</u>		<u>NEW@3'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>8:30</u>		<u>↓</u>											
<u>4</u>		<u>WW@3'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>9:00</u>		<u>↓</u>											
<u>5</u>		<u>FL1@3'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>9:30</u>		<u>↓</u>											
<u>6</u>		<u>FL2@2'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>10:00</u>		<u>↓</u>											
<u>7</u>		<u>FW@3'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>10:30</u>		<u>↓</u>											
<u>8</u>		<u>FL1@4'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>11:00</u>		<u>↓</u>											
<u>9</u>		<u>UWC@4'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>11:30</u>		<u>↓</u>											
<u>10</u>		<u>UWC@4'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>11:30</u>		<u>↓</u>											

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Relinquished By: <u>[Signature]</u>		Date: <u>2/26/20</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <u>08:50</u>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:				email results			
						<u>pm @ etechenv.com</u>			
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>-6.8°C #113</u>				Cool Intact		(Initials)			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>T-0</u>			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>COG Operating LLC</u>				BILL TO				ANALYSIS REQUEST																																	
Project Manager: <u>Joel Lowmy</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																																	
Address: <u>3100 Plains Hwy</u>				Company: <u>COG</u>																																					
City: <u>Covington</u> State: <u>NM</u> Zip: <u>88240</u>				Attn: <u>Dakota Neel</u>																																					
Phone #: <u>575-396-2378</u> Fax #: <u>575-396-1409</u>				Address:																																					
Project #: <u>11733</u> Project Owner: <u>COG</u>				City:																																					
Project Name: <u>Craig St #34</u>				State: Zip:																																					
Project Location:				Phone #:																																					
Sampler Name: <u>Heater Villa</u>				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
<u>H000610</u>		<u>11 WWC@4'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>12:00</u>		<u>X</u> <u>✓</u> <u>✓</u>											
		<u>12 FL1d@2'</u>		<u>C</u>		<u>1</u>						<u>X</u>														<u>1-24-20</u>		<u>1:00</u>		<u>X</u> <u>X</u> <u>X</u>											

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Relinquished By: <u>Mate Lino</u>		Date: <u>2-26-20</u>		Received By: <u>Jamara Alarcon</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <u>1856</u>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: <u>email results</u> <u>pmc@etelab.com</u>			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>-6.8c #113</u>				Cool Intact		(Initials)			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<u>✓</u>			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

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Appendix D

Photographic Log

Photographic Log



Photographic Log

Dates: 02/21/2020 - 02/28/2020



Photographic Log

Dates: 03/09/2020

