

Incident ID	nAPP2202754237
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?	>800 (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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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

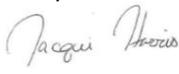
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

State of New Mexico
Oil Conservation Division

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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: Jacqui Harris Title: Sr. Environmental Engineer
 Signature:  Date: 6/9/2022
 email: Jacqui.Harris@conocophillips.com Telephone: (575)745-1807

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2202754237
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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: Jacqui Harris Title: Sr. Environmental Engineer
 Signature:  Date: 6/9/2022
 email: Jacqui.Harris@conocophillips.com Telephone: (575)745-1807

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: 06/13/2022
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

COG Operating, LLC Raspberry State Com 001H

Lea County, New Mexico
Unit Letter "P", Section 27, Township 21 South, Range 33 East
Latitude 32.4437 North, Longitude 103.552 West
NMOCD Reference No. nAPP2202754237

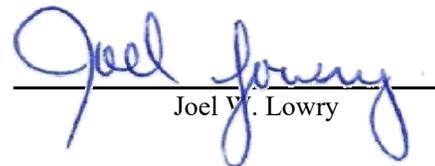
Prepared By:

Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A
Lubbock, Texas 79423



Ben J. Arguijo



Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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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 & Soil Closure Request* for the release site known as the Raspberry State Com 001H (henceforth, "Raspberry 001H"). Details of the release are summarized below:

Location of Release Source				
Latitude: _____		32.4437		Longitude: _____
				-103.5520
Provided GPS are in WGS84 format.				
Site Name: _____		Raspberry State Com 001H		Site Type: _____
				Tank Battery
Date Release Discovered: _____		1/14/2022		API # (if applicable): _____
				N/A
Unit Letter	Section	Township	Range	County
"P"	27	21S	33E	Lea
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name _____ Merchant Livestock _____)				
Nature and Volume of Release				
<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	0.372	Volume Recovered (bbls)	0
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 fluid going out of flare line. The release resulted in a flare fire on the pad. No fluid was recovered due to the fire burning off any standing liquid.				
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 Raspberry 001H 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.

	>800'	
What is the shallowest depth to groundwater beneath the area affected by the release?		
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
Are the lateral extents of the release within the 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 type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Raspberry 001H release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>800'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On February 10, 2022, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (V1, V2, and V3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, four (4) hand-augered soil bores (NEH, NWH, SEH, and SWH) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of sixteen (16) delineation soil samples (NEH @ 0', NEH @ 1', NWH @ 0', NWH @ 1', SEH @ 0', SEH @ 1', SWH @ 0', SWH @ 1', V1 @ 0', V1 @ 1', V1 @ 2', V1 @ 3', V2 @ 0', V2 @ 1', V3 @ 0', and V3 @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond three (3) feet below ground surface (bgs) in the areas characterized by sample points V1, V2, and V3.

The locations of the hand-augered soil bores are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

5.0 REMEDIATION ACTIVITIES SUMMARY

On March 18, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Etech collected five (5) confirmation soil samples (NSW1, F1 @ 1.5', F2 @ 1.5', F3 @ 1.5', and F7 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 32.0 mg/kg in soil samples NSW1, F1 @ 1.5', F2 @ 1.5', and F7 @ 2' to 48.0 mg/kg in soil sample F3 @ 1.5'.

On March 21, 2022, Etech collected four (4) confirmation soil samples (F5 @ 1.5', F6 @ 2', F9 @ 1.5', and F10 @ 1.5') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exception of soil sample F10 @ 1.5', which exhibited a TPH concentration of 24.6 mg/kg. Chloride concentrations ranged from less than the laboratory MDL in soil sample F9 @ 1.5' to 112 mg/kg in soil sample F6 @ 2'.

On March 22, 2022, Etech collected seven (7) confirmation soil samples (WSW, F4 @ 1.5', F8 @ 1.5', F12 @ 2', F13 @ 1.5', F16 @ 1.5', and F17 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exceptions

of soil samples F4 @ 1.5' and F8 @ 1.5', which exhibited TPH concentrations of 240 mg/kg and 159 mg/kg, respectively. Chloride concentrations ranged from less than the laboratory MDL in soil samples WSW and F8 @ 1.5' to 48.0 mg/kg in soil sample F12 @ 2'.

On March 23, 2022, Etech collected nine (9) confirmation soil samples (ESW, SSW, F11 @ 1.5', F14 @ 3', F15 @ 1.5', F18 @ 1.5', F19 @ 1.5', F20 @ 1.5', and F21 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exceptions of soil samples ESW and F11 @ 1.5', which exhibited TPH concentrations of 75.2 mg/kg and 20.4 mg/kg, respectively. Chloride concentrations ranged from less than the laboratory MDL in soil sample F21 @ 1.5' to 128 mg/kg in soil sample SSW.

On March 24, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples F4 @ 1.5' and F8 @ 1.5'. Etech collected three (3) confirmation soil samples (NSW2, F4 @ 2', and F8 @ 4') from the sidewall and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. The BTEX concentration in soil sample NSW2 was also less than the laboratory MDL. TPH concentrations were 95.2 mg/kg in soil sample F4 @ 2' and 59.6 in soil sample F8 @ 4'. The chloride concentration in soil sample NSW2 was 80.0 mg/kg.

The final dimensions of the excavated area were approximately 72 feet in length, 56 to 74 feet in width, and one and one-half (1.5) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 240 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 240 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

7.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Raspberry 001H release site.

8.0 LIMITATIONS

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

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

9.0 DISTRIBUTION

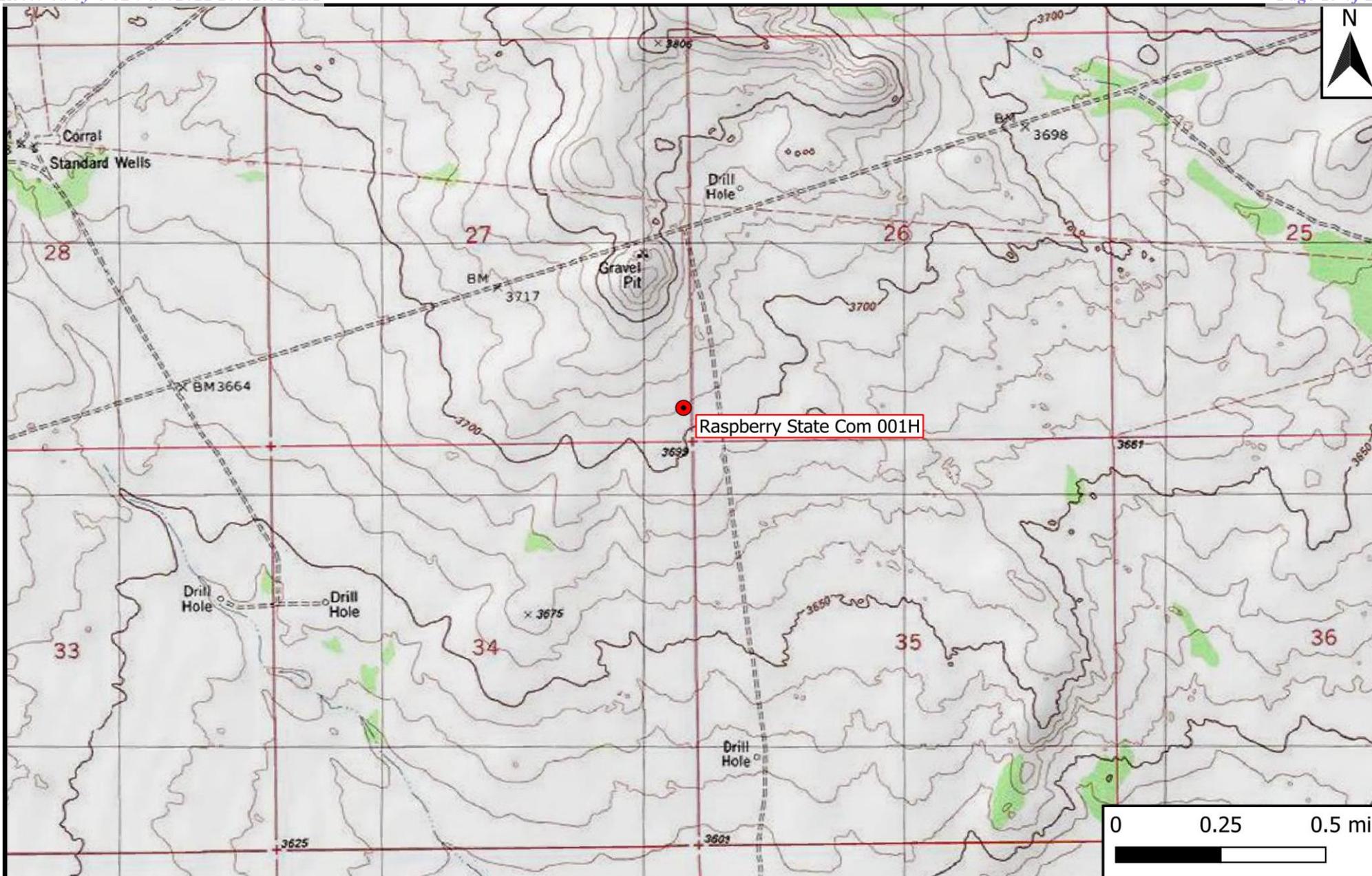
COG Operating, LLC
600 West Illinois Avenue
Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

Merchant Livestock Company
P.O. Box 1105
Eunice, NM 88231

(Electronic Submission)

Figure 1 Topographic Map



Legend
 ● Site Location

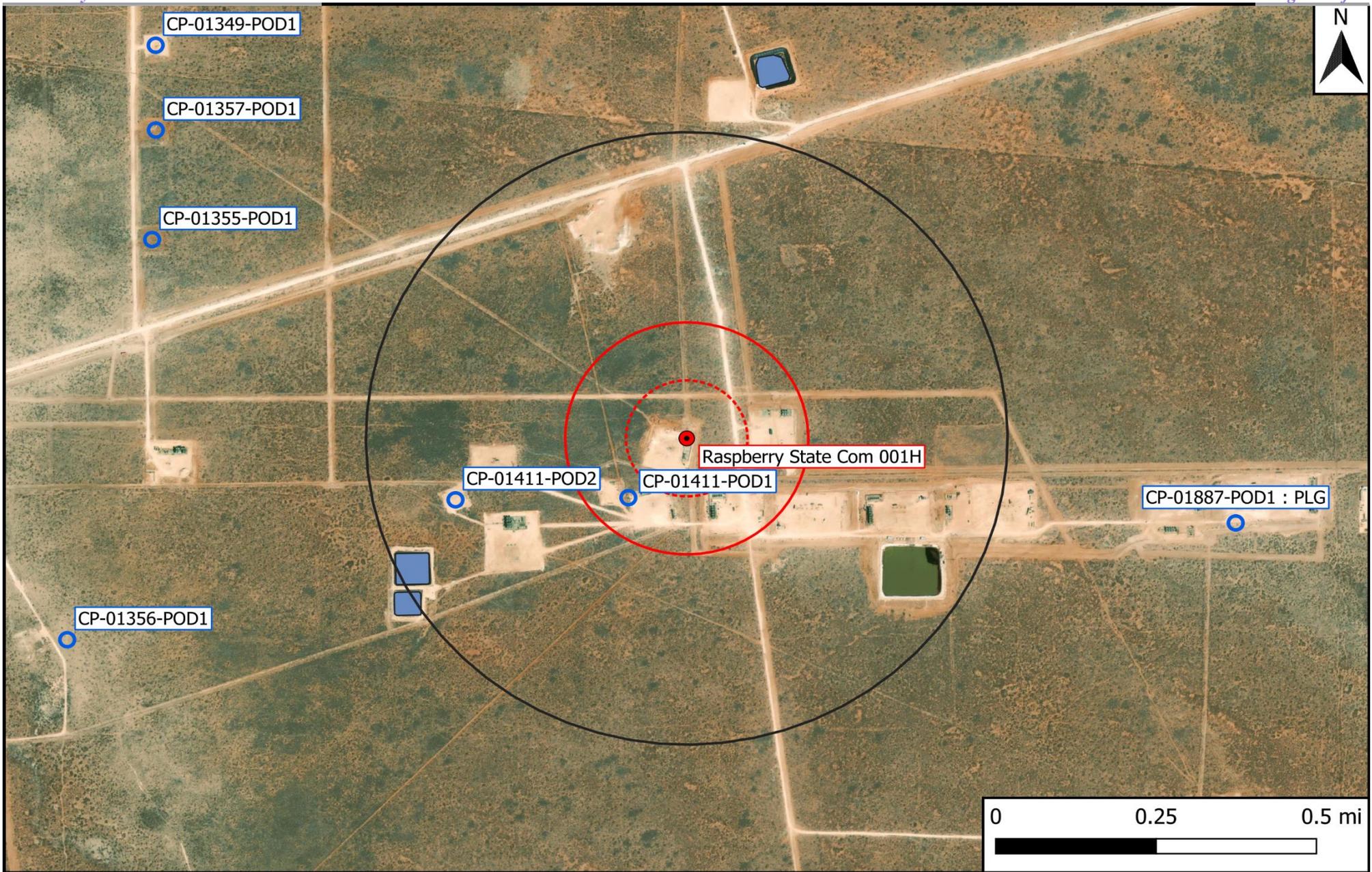
Figure 1
 Topographic Map
 COG Operating, LLC
 Raspberry State Com 001H
 GPS: 32.4437, -103.5520
 Lea County



Drafted: bja Checked: jwl Date: 4/16/22

Figure 2

Aerial Proximity Map



Legend		
	Site Location	
	Well - NMOSE	
	Well - USGS	
	Well - Other	
	Potash Mine Workings	
	1% Annual Flood Chance	
	Emergent/Forested Wetlands	
	Freshwater Pond/Lake	
	Medium/High Karst	
	Riverine	

Figure 2
 Aerial Proximity Map
 COG Operating, LLC
 Raspberry State Com 001H
 GPS: 32.4437, -103.5520
 Lea County

eTECH **Environmental & Safety Solutions, Inc.**

Drafted: bja Checked: jwl Date: 4/16/22

Figure 3 Site & Sample Location Map



Legend:

	Excavated Area
	Composite Floor Sample
	Composite Wall Sample
	Delineation Sample Point

Figure 3
 Site & Sample Location Map
 COG Operating, LLC
 Raspberry State Com 001H
 GPS: 32.4437, -103.5520
 Lea County


 Environmental & Safety Solutions, Inc.

Revised: bja Checked: jwl Date: 5/11/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Raspberry State Com 001H NMOCD Ref. #: nAPP2202754237											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	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)
Delineation Samples											
NEH @ 0'	2/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NEH @ 1'	2/10/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NWH @ 0'	2/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NWH @ 1'	2/10/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SEH @ 0'	2/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
SEH @ 1'	2/10/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SWH @ 0'	2/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SWH @ 1'	2/10/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
V1 @ 0'	2/10/2022	0	Excavated	<0.050	<0.300	11.4	2,380	2,390	586	2,980	32.0
V1 @ 1'	2/10/2022	1	Excavated	<0.050	<0.300	<10.0	103	103	<10.0	<i>103</i>	16.0
V1 @ 2'	2/10/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
V1 @ 3'	2/10/2022	3	Excavated	<0.050	<0.300	<10.0	12.0	12.0	<10.0	12.0	<16.0
V2 @ 0'	2/10/2022	0	Excavated	<0.050	<0.300	<10.0	214	214	60.0	274	16.0
V2 @ 1'	2/10/2022	1	Excavated	<0.050	<0.300	<10.0	81.5	81.5	21.7	103	32.0
V3 @ 0'	2/10/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
V3 @ 1'	2/10/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
Excavation Samples											
NSW1	3/18/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NSW2	3/24/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
ESW	3/23/2022	0-2	In-Situ	<0.050	<0.300	<10.0	65.2	65.2	10.0	75.2	64.0
SSW	3/23/2022	0-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WSW	3/22/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
F1 @ 1.5'	3/18/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F2 @ 1.5'	3/18/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F3 @ 1.5'	3/18/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F4 @ 1.5'	3/22/2022	1.5	Excavated	<0.050	<0.300	<10.0	182	182	58.4	<i>240</i>	16.0
F4 @ 2'	3/24/2022	2	In-Situ	-	-	<10.0	71.2	71.2	24.0	95.2	-
F5 @ 1.5'	3/21/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F6 @ 2'	3/21/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
F7 @ 2'	3/18/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F8 @ 1.5'	3/22/2022	1.5	Excavated	<0.050	<0.300	<10.0	121	121	37.5	<i>159</i>	<16.0
F8 @ 4'	3/24/2022	4	In-Situ	-	-	<10.0	38.9	38.9	20.7	59.6	-
F9 @ 1.5'	3/21/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
F10 @ 1.5'	3/21/2022	1.5	In-Situ	<0.050	<0.300	<10.0	24.6	24.6	<10.0	24.6	16.0
F11 @ 1.5'	3/23/2022	1.5	In-Situ	<0.050	<0.300	<10.0	20.4	20.4	<10.0	20.4	64.0
F12 @ 2'	3/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F13 @ 1.5'	3/22/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F14 @ 3'	3/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F15 @ 1.5'	3/23/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
F16 @ 1.5'	3/22/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.**Red or Italicized:** NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Raspberry State Com 001H NMOCD Ref. #: nAPP2202754237												
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000	
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600	
Sample ID	Date	Depth (Feet)	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)	
F17 @ 1.5'	3/22/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
F18 @ 1.5'	3/23/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
F19 @ 1.5'	3/23/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
F20 @ 1.5'	3/23/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
F21 @ 1.5'	3/23/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	

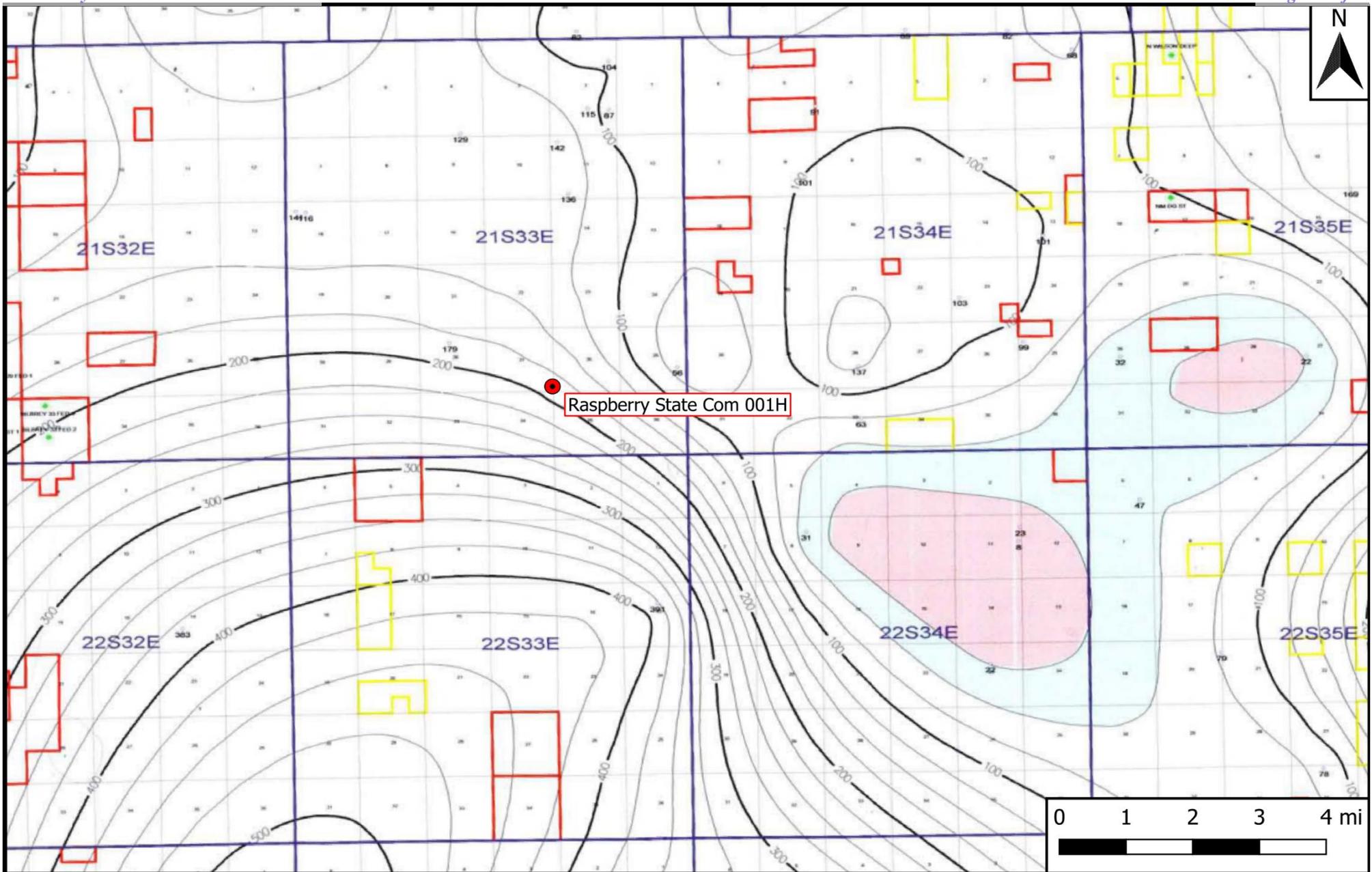
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red or Italicized: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 COG Operating, LLC
 Raspberry State Com 001H
 GPS: 32.4437, -103.5520
 Lea County

eTECH
 Environmental & Safety Solutions, Inc.



Drafted: bja Checked: jwl Date: 4/16/22



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,

O=orphaned,

C=the file is closed)

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Well Depth	Water Depth	Water Column
CP 01411 POD1		CP	LE	2	2	34	21S	33E		635968	3590386	213	1149		
CP 01411 POD2		CP	LE	1	2	34	21S	33E		635534	3590380	602	1125		
CP 01887 POD1		CP	LE	2	2	2	35	21S	33E	637492	3590319	1395			
CP 01355 POD1		CP	LE	2	1	3	27	21S	33E	634773	3591061	1439	1192	582	610
CP 01357 POD1		CP	LE	4	3	1	27	21S	33E	634782	3591347	1557	1286	578	708

Average Depth to Water: **580 feet**

Minimum Depth: **578 feet**

Maximum Depth: **582 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 636114.79

Northing (Y): 3590541

Radius: 1610

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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)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec TwS Rng	X Y					
	CP 01411 POD1	2 2 34 21S 33E	635968 3590386					

Driller License: 1723	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name:		
Drill Start Date: 10/09/2014	Drill Finish Date: 10/14/2014	Plug Date:
Log File Date: 12/26/2014	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 9.88	Depth Well: 1149 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	800	820	Sandstone/Gravel/Conglomerate
	820	1145	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	780	1149

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POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) POD 1 CP-1411			OSE FILE NUMBER(S)				
	WELL OWNER NAME(S) BC Operating			PHONE (OPTIONAL) 432-684-9696				
	WELL OWNER MAILING ADDRESS 4000 Big Spring St. STE 310			CITY Midland	STATE TX	ZIP 79705		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 26	SECONDS 32.4	N			
	LONGITUDE 103	33	12.9	W				
* ACCURACY REQUIRED: ONE TENTH OF A SECOND								
* DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1723	NAME OF LICENSED DRILLER Randal P Stewart			NAME OF WELL DRILLING COMPANY Stewart Brothers Drilling Company			
	DRILLING STARTED 10/9/14	DRILLING ENDED 10/14/14	DEPTH OF COMPLETED WELL (FT) 1149	BORE HOLE DEPTH (FT) 1149	DEPTH WATER FIRST ENCOUNTERED (FT) 800			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	40	20	A 53 Grade B	Welded	15.5	.250	
	+2	800	14 3/4	A 53 Grade B	Threaded	10.02	.365	
	780	1149	9 7/8	A 53 Grade B	Welded	8	.322	.125
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	40	20	Neat Cement	31	Pressure via Tremi		
	0	800	14 3/4	Class C (Chief Services)	540 Sks	Chief Services		

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FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER CP-1411	POD NUMBER 1	TRN NUMBER 554668
LOCATION Exp	215.33E.34.22	



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	Tw	Rng	X	Y
	CP 01411 POD2	1	2	34	21S	33E	635534	3590380	

Driller License: 1723	Driller Company: SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.	
Driller Name:		
Drill Start Date: 10/01/2014	Drill Finish Date: 10/07/2014	Plug Date:
Log File Date: 12/26/2014	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 9.88	Depth Well: 1125 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	840	1125	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom	
	744	1125	

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POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

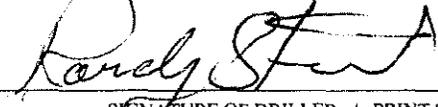
OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) POD 2 CP-1411				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) BC Operating				PHONE (OPTIONAL) 432-684-9696			
	WELL OWNER MAILING ADDRESS 4000 Big Spring St. STE 310				CITY Midland	STATE TX	ZIP 79705	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 26	SECONDS 31.6	N	* ACCURACY REQUIRED ONE TENTH OF A SECOND		
		LONGITUDE	103	33	29.5	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1723	NAME OF LICENSED DRILLER Randal P Stewart			NAME OF WELL DRILLING COMPANY Stewart Brothers Drilling Company			
	DRILLING STARTED 10/1/14	DRILLING ENDED 10/7/14	DEPTH OF COMPLETED WELL (FT) 10/8/14	BORE HOLE DEPTH (FT) 1125	DEPTH WATER FIRST ENCOUNTERED (FT) 840			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	40	20	A 53 Grade B	Welded	15.5	.250	
	+2	756	14 3/4	A 53 Grade B	Threaded	10.02	.365	
	744	1125	14 3/4 9 7/8	A 53 Grade B	Welded	8	.322	.125
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	40	20	Neat Cement	31	Pressure via Tremi		
	0	756	14 3/4	Class C (Chief Services)	545 Sks	Chief Services		

STATE ENGINEER
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2014 DEC 26

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP 1411	POD NUMBER	2
LOCATION	Exp1	TRN NUMBER	554608
			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	40	40	Brown Fine Sand and Clavs. some caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	40	100	60	Reddish Brown clavs and Sands	<input type="radio"/> Y <input checked="" type="radio"/> N	
	100	200	100	Clavs and Sands	<input type="radio"/> Y <input checked="" type="radio"/> N	
	200	300	100	Red and Brown clay with some sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	300	400	100	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	400	500	100	Clay and Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	500	700	200	Reddish and gray clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	700	765	65	Red Clay and harder sands and gravels	<input type="radio"/> Y <input checked="" type="radio"/> N	
	765	770	5	Fine sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	770	810	40	Grav Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	810	820	10	Grav Brown Sandstone	<input type="radio"/> Y <input checked="" type="radio"/> N	
	820	830	10	Grav and Brown SS	<input type="radio"/> Y <input checked="" type="radio"/> N	
	830	840	10	Grav Brown SS	<input type="radio"/> Y <input checked="" type="radio"/> N	
	840	1125	285	Santa Rosa Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm): 50	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Danny White, Don Ward, Davis Gaddy					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME			Randy Stewart DATE: 10/30/14		

STATE ENGINEER
 ROSWELL, NE
 2014 DEC 26
 9

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	OP-1411	POD NUMBER	2
LOCATION	Exp	TRN NUMBER	354668
			PAGE 2 OF 2



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng		
NA	CP 01887 POD1	2	2	2	35	21S	33E	637492	3590319

Driller License: 1249	Driller Company: ATKINS ENGINEERING ASSOC. INC.	
Driller Name: ATKINS, JACKIE D.UELENER		
Drill Start Date: 10/07/2021	Drill Finish Date: 10/07/2021	Plug Date: 10/14/2021
Log File Date: 11/02/2021	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water:

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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
CP	01355 POD1	2	1	3	27	21S	33E 634773 3591061

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE				
Driller Name:	GLENN, CLARK A."CORKY"						
Drill Start Date:	07/22/2014	Drill Finish Date:	07/29/2014	Plug Date:			
Log File Date:	09/10/2014	PCW Rev Date:	04/27/2017	Source:	Artesian		
Pump Type:	SUBMER	Pipe Discharge Size:	3	Estimated Yield:	50 GPM		
Casing Size:	6.37	Depth Well:	1192 feet	Depth Water:	582 feet		

Water Bearing Stratifications:	Top	Bottom	Description
	925	975	Sandstone/Gravel/Conglomerate
	975	1185	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	690	1192

Meter Number:	18276	Meter Make:	BLANCETT
Meter Serial Number:	092413721	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/03/2015	2015	551474	A	ap	beginning meter amt	0
06/27/2015	2015	578359	A	ap		346.530
07/31/2015	2015	578359	A	ap		0
08/31/2015	2015	578359	A	ap		0
09/30/2015	2015	578359	A	ap		0
10/28/2015	2015	578861	A	ap		6.470
11/30/2015	2015	590798	A	ap		153.860
04/28/2016	2016	784703	A	ap		2499.305
06/30/2016	2016	884243	A	ap		1283.004
07/27/2016	2016	939606	A	ap		713.592
09/01/2016	2016	995570	A	ap		721.338
09/30/2016	2016	1016127	A	ap		264.966
10/30/2016	2016	1043814	A	ap		356.867
11/29/2016	2016	1103209	A	ap		765.562
12/31/2016	2016	1156125	A	ap		682.052
02/01/2017	2017	1180595	A	ap		315.402
03/01/2017	2017	1190359	A	ap		125.851
03/31/2017	2017	1240617	A	ap		647.792
05/01/2017	2017	1286711	A	ap		594.121

05/31/2017	2017	1299115	A	ap	159.879
07/31/2017	2017	1383629	A	ap	1089.329
10/31/2017	2017	1493649	A	ap	1418.084
11/30/2017	2017	1561037	A	ap	868.586
12/30/2017	2017	1623261	A	ap	802.025
01/30/2018	2018	1649051	A	ap	332.416
02/28/2018	2018	1734092	A	ap	1096.121
03/30/2018	2018	1787360	A	ap	686.589
04/30/2018	2018	1839572	A	ap	672.978
06/01/2018	2018	1891342	A	ap	667.280
06/29/2018	2018	1940867	A	ap	638.344
07/31/2018	2018	1999821	A	ap	759.877
08/30/2018	2018	2052087	A	ap	673.674
09/30/2018	2018	2084885	A	ap	422.744
11/30/2018	2018	2190614	A	ap	1362.776
01/02/2019	2018	2242236	A	RPT	6.654
02/01/2019	2019	2253666	A	RPT	1.473
08/01/2019	2019	2591739	A	RPT	43.575
09/01/2019	2019	2636041	A	RPT	5.710
09/30/2019	2019	2691438	A	RPT	7.140
10/31/2019	2019	2741881	A	RPT	6.502
11/30/2019	2019	2791150	A	RPT	6.350
12/31/2019	2019	2819880	A	RPT	3.703
02/01/2020	2020	2825724	A	RPT	0.753
03/01/2020	2020	2848363	A	RPT	2.918
04/01/2020	2020	2857702	A	RPT	1.204
05/01/2020	2020	2857702	A	RPT	0
06/01/2020	2020	2857702	A	RPT	0
08/01/2020	2020	2892062	A	RPT	4.429
09/01/2020	2020	2902122	A	RPT	1.297
10/01/2020	2020	2907904	A	RPT	0.745
10/31/2020	2020	2934407	A	WEB	3.416 X
11/30/2020	2020	2934407	A	WEB	0 X
12/31/2020	2020	3011182	A	WEB	9.896 X

**YTD Meter Amounts:		Year	Amount
		2015	506.860
		2016	7286.686
		2017	6021.069
		2018	7319.453
		2019	74.453
		2020	24.658

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.

1/28/22 9:33 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
CP 01357	POD1	4 3 1	27	21S	33E	634782	3591347

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A."CORKY"		
Drill Start Date: 08/16/2014	Drill Finish Date: 08/26/2014	Plug Date:
Log File Date: 09/10/2014	PCW Rev Date: 04/27/2017	Source: Artesian
Pump Type: SUBMER	Pipe Discharge Size: 3	Estimated Yield:
Casing Size: 6.37	Depth Well: 1286 feet	Depth Water: 578 feet

Water Bearing Stratifications:	Top	Bottom	Description
	945	960	Sandstone/Gravel/Conglomerate
	960	1077	Shale/Mudstone/Siltstone
	1077	1215	Sandstone/Gravel/Conglomerate
	1215	1286	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	846	1286

Meter Number: 18278	Meter Make: BLANCETT
Meter Serial Number: 002514700	Meter Multiplier: 1.0000
Number of Dials: 9	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

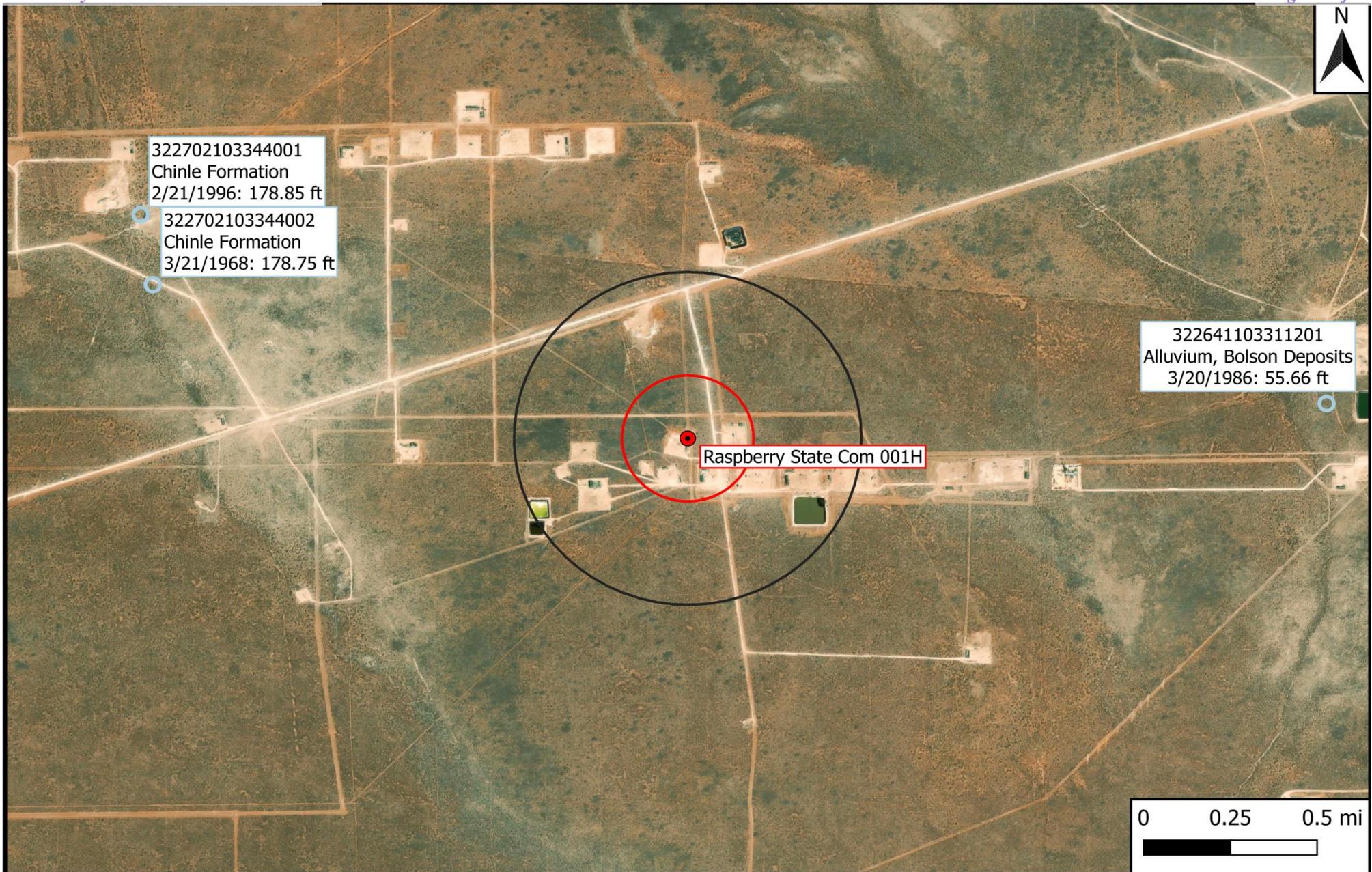
Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/03/2015	2015	620282	A	ap	beginning meter reading	0
06/27/2015	2015	648079	A	ap		358.285
07/31/2015	2015	648079	A	ap		0
08/21/2015	2015	678838	A	ap		396.463
09/30/2015	2015	679417	A	ap		7.463
10/30/2015	2015	777255	A	ap		1261.066
11/30/2015	2015	798886	A	ap		278.809
04/30/2016	2016	984569	A	ap		2393.329
06/30/2016	2016	1124000	A	ap		1797.172
07/31/2016	2016	1199233	A	ap		969.703
09/01/2016	2016	1273938	A	ap		962.897
09/30/2016	2016	1304197	A	ap		390.018
10/31/2016	2016	1352466	A	ap		622.155
11/29/2016	2016	1416500	A	ap		825.355
12/31/2016	2016	1496320	A	ap		1028.826
02/01/2017	2017	1526044	A	ap		383.122
03/01/2017	2017	1526818	A	ap		9.976

03/31/2017	2017	1549606	A	ap	293.722
05/01/2017	2017	1596745	A	ap	607.590
05/31/2017	2017	1609365	A	ap	162.663
07/31/2017	2017	1675457	A	ap	851.881
10/31/2017	2017	1782654	A	ap	1381.697
11/30/2017	2017	1866815	A	ap	1084.779
12/30/2017	2017	1939812	A	ap	940.882
01/30/2018	2018	2006016	A	ap	853.325
02/28/2018	2018	2071063	A	ap	838.412
03/30/2018	2018	2134697	A	ap	820.199
04/30/2018	2018	2198100	A	ap	817.222
06/01/2018	2018	2264810	A	ap	859.847
06/29/2018	2018	2327836	A	ap	812.363
07/31/2018	2018	2408117	A	ap	1034.768
08/30/2018	2018	2477917	A	ap	899.675
09/30/2018	2018	2536539	A	ap	755.598
11/30/2018	2018	2614905	A	ap	1010.085
01/02/2019	2018	2676128	A	RPT	7.891
02/01/2019	2019	2690452	A	RPT	1.846
08/01/2019	2019	3102120	A	RPT	53.061
09/01/2019	2019	3143282	A	RPT	5.306
09/30/2019	2019	3237244	A	RPT	12.111
10/31/2019	2019	3279628	A	RPT	5.463
11/30/2019	2019	3343068	A	RPT	8.177
12/31/2019	2019	3380700	A	RPT	4.851
02/01/2020	2020	3404021	A	RPT	3.006
03/01/2020	2020	3424112	A	RPT	2.590
04/01/2020	2020	3461970	A	RPT	4.880
05/01/2020	2020	3461970	A	RPT	0
06/01/2020	2020	3474270	A	RPT	1.585
08/01/2020	2020	3485254	A	RPT	1.416
09/01/2020	2020	3495334	A	RPT	1.299
10/01/2020	2020	3495334	A	RPT	0
10/31/2020	2020	3520393	A	WEB	3.230 X
11/30/2020	2020	3604293	A	WEB	10.814 X
12/31/2020	2020	3652303	A	WEB	6.188 X

**YTD Meter Amounts:		
Year	Amount	
2015	2302.086	
2016	8989.455	
2017	5716.312	
2018	8709.385	
2019	90.815	
2020	35.008	

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- Legend
- Site Location
 - Well - USGS
 - 1,000-Ft Radius
 - 0.5-Mi Radius

Figure 5
 USGS Well Proximity Map
 COG Operating, LLC
 Raspberry State Com 001H
 GPS: 32.4437, -103.5520
 Lea County



Drafted: bja Checked: jwl Date: 4/16/22



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[USGS Water Resources](#)

Data Category: Groundwater Geographic Area: United States GO

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Agency code = usgs
 site_no list = 322641103311201

Minimum number of levels = 1

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USGS 322641103311201 21S.33E.25.42322

Lea County, New Mexico
 Latitude 32°26'41", Longitude 103°31'12" NAD27
 Land-surface elevation 3,660 feet above NAVD88
 The depth of the well is 68 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
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Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1968-03-28			D 72019	56.53			1	Z			A
1971-02-04			D 72019	58.95			1	Z			A
1972-09-22			D 72019	56.53			1	Z			A
1976-12-16			D 72019	57.58			1	Z			A
1981-03-10			D 72019	56.03			1	Z			A
1986-03-20			D 72019	55.66			1	Z			A

Explanation

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

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.44 0.32 nadww01



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Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 322702103344001

Minimum number of levels = 1

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USGS 322702103344001 21S.33E.28.12443

Lea County, New Mexico
 Latitude 32°27'13", Longitude 103°34'42" NAD27
 Land-surface elevation 3,688.00 feet above NGVD29
 The depth of the well is 224 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1971-02-04			D	72019	178.62		1	Z			A
1972-09-22			D	72019	178.60		1	Z			A
1976-12-16			D	72019	178.86		1	Z			A
1981-03-10			D	72019	184.67		1	Z			A

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1986-03-20		D	72019	179.24			1	Z			A
1991-04-19		D	72019	179.10			1	Z			A
1996-02-21		D	72019	178.85			1	S			A

Explanation

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

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0.43 0.31 nadww01



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Data Category: Groundwater Geographic Area: United States GO

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Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 322702103344002

Minimum number of levels = 1

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USGS 322702103344002 21S.33E.28.12443A

Lea County, New Mexico
 Latitude 32°27'02", Longitude 103°34'40" NAD27
 Land-surface elevation 3,680 feet above NAVD88
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1968-03-21		D	72019	178.75			1	Z			A

Explanation

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

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URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.35 0.31 nadww01

Appendix B Field Data



Sample Log

Project: CoG, Raspberry st# 1 H

Date: 3-18-22

Project Number: 15554

Latitude: _____

Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
F1@1 1/2	None	216	
F2@1 1/2	None	280	
F7@2	None	440	
F3@1 1/2	None	216	
NSW1 1 1/2	None	280	
F22@0	None	396	
F23@0	None	396	
F24@0	None	356	
F25@0	None	316	
F26@0	None	316	
F6@2	None	488	
F10@1 1/2	None	440	
F9@1 1/2	None	440	
F5@1 1/2	None	488	
F4@1 1/2	None	536	
F8@1 1/2	None	440	
F12@2	None	536	
F16@1 1/2	None	488	
F17@1 1/2	None	352	
F13@1 1/2	None	316	
WSW	None	440	
F20@1 1/2	None	536	
SSW	None	316	
F14@3	None	488	
F18@1 1/2	None	536	
F15@1 1/2	None	488	
F11@1 1/2	None	440	
FSW@1 1/2	None	488	
F19@1 1/2	None	440	
F21@1 1/2	None	352	
NSW2	None	352	
F4@2	None	352	
F8@2	None	316	

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

February 14, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 02/10/22 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: SWH @ 0' (H220536-01)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: SWH @ 1' (H220536-02)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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* = Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: SEH @ 0' (H220536-03)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: SEH @ 1' (H220536-04)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: NWH @ 0' (H220536-05)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: NWH @ 1' (H220536-06)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: NEH @ 0' (H220536-07)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/11/2022	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	02/12/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/12/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: NEH @ 1' (H220536-08)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2022	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	02/13/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 1 @ 0' (H220536-09)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-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	02/11/2022	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*	11.4	10.0	02/13/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	2380	10.0	02/13/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	586	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 1 @ 1' (H220536-10)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/11/2022	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	02/13/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	103	10.0	02/13/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 1 @ 2' (H220536-11)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2022	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	02/13/2022	ND	183	91.4	200	9.33	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 1 @ 3' (H220536-12)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2022	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	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	12.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 2 @ 0' (H220536-13)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/11/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/13/2022	ND	201	101	200	1.08		
DRO >C10-C28*	214	10.0	02/13/2022	ND	204	102	200	0.128		
EXT DRO >C28-C36	60.0	10.0	02/13/2022	ND						

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 154 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 2 @ 1' (H220536-14)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	02/11/2022	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	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	81.5	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	21.7	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 3 @ 0' (H220536-15)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2022	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	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/10/2022	Sampling Date:	02/10/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Jodi Henson
Project Location:	COG - LEA CO NM		

Sample ID: V 3 @ 1' (H220536-16)

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	02/12/2022	ND	2.10	105	2.00	1.44	
Toluene*	<0.050	0.050	02/12/2022	ND	2.07	104	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/12/2022	ND	2.08	104	2.00	1.14	
Total Xylenes*	<0.150	0.150	02/12/2022	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	02/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2022	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	02/13/2022	ND	201	101	200	1.08	
DRO >C10-C28*	<10.0	10.0	02/13/2022	ND	204	102	200	0.128	
EXT DRO >C28-C36	<10.0	10.0	02/13/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

March 22, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/21/22 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/21/2022	Sampling Date:	03/18/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 1 @ 1.5' (H221107-01)

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	03/21/2022	ND	1.90	94.8	2.00	3.97	
Toluene*	<0.050	0.050	03/21/2022	ND	1.97	98.5	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	1.92	96.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	5.97	99.4	6.00	3.91	
Total BTEX	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-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	03/21/2022	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	03/21/2022	ND	200	99.9	200	1.77	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	205	103	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/21/2022	Sampling Date:	03/18/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 2 @ 1.5' (H221107-02)

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	03/21/2022	ND	1.90	94.8	2.00	3.97	
Toluene*	<0.050	0.050	03/21/2022	ND	1.97	98.5	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	1.92	96.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	5.97	99.4	6.00	3.91	
Total BTEX	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-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	03/21/2022	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	03/21/2022	ND	200	99.9	200	1.77	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	205	103	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/21/2022	Sampling Date:	03/18/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 3 @ 1.5' (H221107-03)

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	03/21/2022	ND	1.90	94.8	2.00	3.97	
Toluene*	<0.050	0.050	03/21/2022	ND	1.97	98.5	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	1.92	96.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	5.97	99.4	6.00	3.91	
Total BTEX	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2022	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	03/21/2022	ND	200	99.9	200	1.77	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	205	103	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/21/2022	Sampling Date:	03/18/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 7 @ 2' (H221107-04)

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	03/21/2022	ND	1.90	94.8	2.00	3.97	
Toluene*	<0.050	0.050	03/21/2022	ND	1.97	98.5	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	1.92	96.0	2.00	3.69	
Total Xylenes*	<0.150	0.150	03/21/2022	ND	5.97	99.4	6.00	3.91	
Total BTEX	<0.300	0.300	03/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/21/2022	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	03/21/2022	ND	200	99.9	200	1.77	
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	205	103	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND					

Surrogate: 1-Chlorooctane 120 % 66.9-136

Surrogate: 1-Chlorooctadecane 123 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/21/2022	Sampling Date:	03/18/2022
Reported:	03/22/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NSW 1 (H221107-05)

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	03/21/2022	ND	1.90	94.8	2.00	3.97		
Toluene*	<0.050	0.050	03/21/2022	ND	1.97	98.5	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/21/2022	ND	1.92	96.0	2.00	3.69		
Total Xylenes*	<0.150	0.150	03/21/2022	ND	5.97	99.4	6.00	3.91		
Total BTEX	<0.300	0.300	03/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-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	03/21/2022	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	03/21/2022	ND	200	99.9	200	1.77		
DRO >C10-C28*	<10.0	10.0	03/21/2022	ND	205	103	200	4.42		
EXT DRO >C28-C36	<10.0	10.0	03/21/2022	ND						

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

March 23, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/22/22 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/22/2022	Sampling Date:	03/21/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 5 @ 1.5' (H221116-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2022	ND	1.86	93.1	2.00	6.09	
Toluene*	<0.050	0.050	03/22/2022	ND	1.95	97.6	2.00	9.26	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.91	95.6	2.00	8.43	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.15	103	6.00	8.75	
Total BTEX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/22/2022	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	03/22/2022	ND	178	89.0	200	8.10	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	171	85.6	200	7.35	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/22/2022	Sampling Date:	03/21/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 6 @ 2' (H221116-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2022	ND	1.86	93.1	2.00	6.09	
Toluene*	<0.050	0.050	03/22/2022	ND	1.95	97.6	2.00	9.26	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.91	95.6	2.00	8.43	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.15	103	6.00	8.75	
Total BTEX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/22/2022	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	03/22/2022	ND	178	89.0	200	8.10	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	171	85.6	200	7.35	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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*=Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/22/2022	Sampling Date:	03/21/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 9 @ 1.5' (H221116-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2022	ND	1.86	93.1	2.00	6.09	
Toluene*	<0.050	0.050	03/22/2022	ND	1.95	97.6	2.00	9.26	
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.91	95.6	2.00	8.43	
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.15	103	6.00	8.75	
Total BTEX	<0.300	0.300	03/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

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	03/22/2022	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	03/22/2022	ND	178	89.0	200	8.10	
DRO >C10-C28*	<10.0	10.0	03/22/2022	ND	171	85.6	200	7.35	
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.9 % 59.5-142

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*=Accredited Analyte

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/22/2022	Sampling Date:	03/21/2022
Reported:	03/23/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 10 @ 1.5' (H221116-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2022	ND	1.86	93.1	2.00	6.09		
Toluene*	<0.050	0.050	03/22/2022	ND	1.95	97.6	2.00	9.26		
Ethylbenzene*	<0.050	0.050	03/22/2022	ND	1.91	95.6	2.00	8.43		
Total Xylenes*	<0.150	0.150	03/22/2022	ND	6.15	103	6.00	8.75		
Total BTEX	<0.300	0.300	03/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	03/22/2022	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	03/22/2022	ND	178	89.0	200	8.10		
DRO >C10-C28*	24.6	10.0	03/22/2022	ND	171	85.6	200	7.35		
EXT DRO >C28-C36	<10.0	10.0	03/22/2022	ND						

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

March 24, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/23/22 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 4 @ 1.5' (H221133-01)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	03/23/2022	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	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	182	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	58.4	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 8 @ 1.5' (H221133-02)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/23/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	121	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	37.5	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 12 @ 2' (H221133-03)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.0 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 13 @ 1.5' (H221133-04)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 16 @ 1.5' (H221133-05)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 17 @ 1.5' (H221133-06)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/23/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.6 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/23/2022	Sampling Date:	03/22/2022
Reported:	03/24/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: WSW (H221133-07)

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	03/23/2022	ND	1.87	93.5	2.00	8.52	
Toluene*	<0.050	0.050	03/23/2022	ND	2.03	101	2.00	9.00	
Ethylbenzene*	<0.050	0.050	03/23/2022	ND	2.01	101	2.00	8.90	
Total Xylenes*	<0.150	0.150	03/23/2022	ND	6.25	104	6.00	8.65	
Total BTEX	<0.300	0.300	03/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/23/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2022	ND	226	113	200	2.25	
DRO >C10-C28*	<10.0	10.0	03/23/2022	ND	222	111	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	03/23/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.2 % 59.5-142

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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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Celey D. Keene, Lab Director/Quality Manager



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

March 25, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 11 @ 1.5' (H221149-01)

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	03/24/2022	ND	1.89	94.3	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2022	ND	2.03	101	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.09	105	2.00	1.58	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.49	108	6.00	1.24	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	20.4	10.0	03/24/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.0 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 14 @ 3' (H221149-02)

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	03/24/2022	ND	1.89	94.3	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2022	ND	2.03	101	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.09	105	2.00	1.58	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.49	108	6.00	1.24	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.9 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 15 @ 1.5' (H221149-03)

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	03/24/2022	ND	1.89	94.3	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2022	ND	2.03	101	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.09	105	2.00	1.58	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.49	108	6.00	1.24	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 18 @ 1.5' (H221149-04)

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	03/24/2022	ND	1.89	94.3	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2022	ND	2.03	101	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.09	105	2.00	1.58	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.49	108	6.00	1.24	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.4 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 19 @ 1.5' (H221149-05)

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	03/24/2022	ND	1.89	94.3	2.00	1.70	
Toluene*	<0.050	0.050	03/24/2022	ND	2.03	101	2.00	1.79	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.09	105	2.00	1.58	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.49	108	6.00	1.24	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 20 @ 1.5' (H221149-06)

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	03/24/2022	ND	1.84	91.9	2.00	1.94	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.5	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	2.62	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-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	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.4 % 59.5-142

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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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 21 @ 1.5' (H221149-07)

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	03/24/2022	ND	1.84	91.9	2.00	1.94		
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.5	2.00	2.16		
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.4	2.00	2.47		
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	2.62		
Total BTEX	<0.300	0.300	03/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	198	99.1	200	2.29		
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	179	89.7	200	5.45		
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND						

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SSW (H221149-08)

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	03/24/2022	ND	1.84	91.9	2.00	1.94	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.5	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	2.62	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/23/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: ESW (H221149-09)

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	03/24/2022	ND	1.84	91.9	2.00	1.94	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.5	2.00	2.16	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	1.97	98.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.12	102	6.00	2.62	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2022	ND	198	99.1	200	2.29	
DRO >C10-C28*	65.2	10.0	03/25/2022	ND	179	89.7	200	5.45	
EXT DRO >C28-C36	10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.1 % 59.5-142

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

March 25, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/25/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NSW 2 (H221159-01)

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	03/24/2022	ND	1.85	92.5	2.00	2.50	
Toluene*	<0.050	0.050	03/24/2022	ND	1.99	99.6	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/24/2022	ND	2.06	103	2.00	2.27	
Total Xylenes*	<0.150	0.150	03/24/2022	ND	6.36	106	6.00	2.83	
Total BTEX	<0.300	0.300	03/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	03/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2022	ND	214	107	200	3.96	
DRO >C10-C28*	<10.0	10.0	03/24/2022	ND	226	113	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/24/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

March 28, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: RASPBERRY STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/25/22 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	03/25/2022	Sampling Date:	03/24/2022
Reported:	03/28/2022	Sampling Type:	Soil
Project Name:	RASPBERRY STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	15554	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: F 4 @ 2' (H221176-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2022	ND	203	102	200	2.64	
DRO >C10-C28*	71.2	10.0	03/26/2022	ND	201	101	200	1.80	
EXT DRO >C28-C36	24.0	10.0	03/26/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	70.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	70.3 %	59.5-142							

Sample ID: F 8 @ 4' (H221176-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2022	ND	203	102	200	2.64	
DRO >C10-C28*	38.9	10.0	03/26/2022	ND	201	101	200	1.80	
EXT DRO >C28-C36	20.7	10.0	03/26/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	72.7 %	66.9-136							
Surrogate: 1-Chlorooctadecane	76.7 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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

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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: K. Purvis Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 15554 Project Owner: COB Project Name: Raspberry St #1 H Project Location: Rural Lea Sampler Name: Dominic Casarez		BILL TO P.O. #: Company: COB Attn: Charles Beauvais Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST									
---	--	--	--	-------------------------	--	--	--	--	--	--	--	--	--

FOR LAB USE ONLY		G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV	SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL			
A221176													
1	F4e2'	C1			✓			✓			3/24/22		X
2	F8e4'	C1			✓			✓			3/24/22		X
KAP 3/25/22													

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Relinquished By: Relinquished By: 	Date: 3/25/22 Time: 5:00pm Date: 3-25-22 Time: 0925	Received By: Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: <p style="font-size: 2em; color: green;">Rush!</p>
Delivered By: (Circle One) -9.9°C C-0.5°C Sampler - UPS - Bus - Other: -10.4°C #113	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) YO	Please email copy of COC and results to pm@etechenv.com.

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: West-Northwest	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: North	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	 <p>3/24/22, 3:37 PM +32.443954,-103.552655 88231 Lea County</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>3/24/22, 3:37 PM +32.443838,-103.552659 88231 Lea County</p>
Photo Direction: North	
Photo Description: View of the excavated area.	

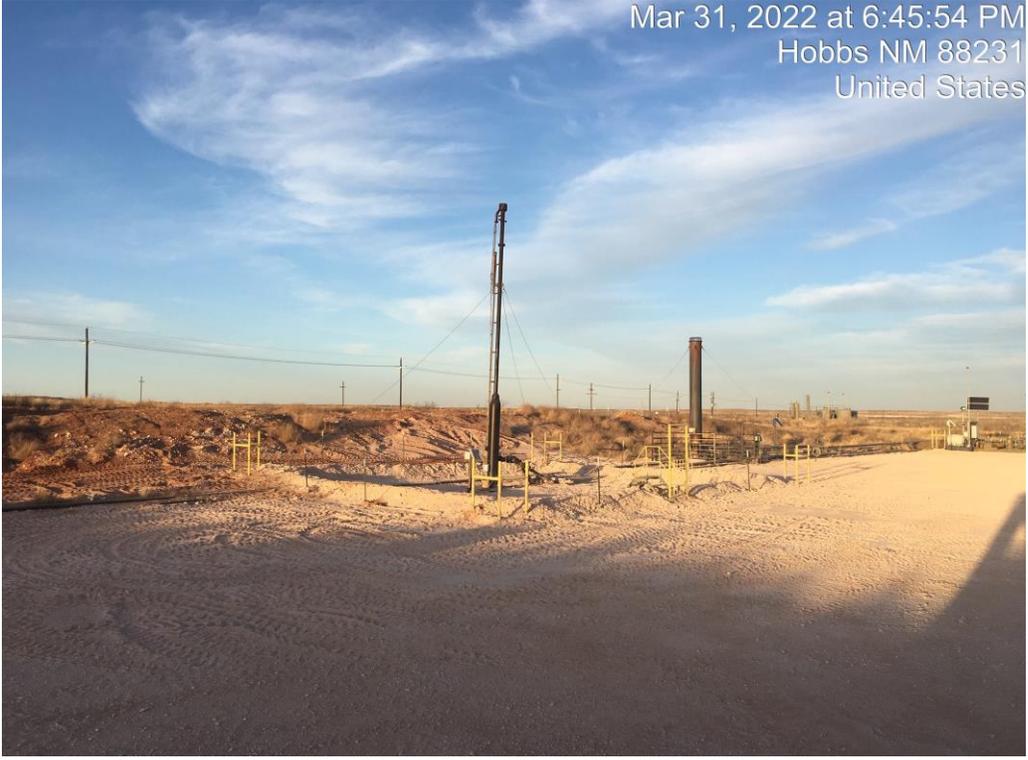
Photographic Log

Photo Number: 7	 <p>3/24/22, 3:37 PM +32.444050,-103.552614 88231 Lea County</p>
Photo Direction: East-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>3/24/22, 3:37 PM +32.443781,-103.552557 88231 Lea County</p>
Photo Direction: North	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <p>Mar 31, 2022 at 6:44:58 PM Hobbs NM 88231 United States</p>
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 10	 <p>Mar 31, 2022 at 6:45:54 PM Hobbs NM 88231 United States</p>
Photo Direction: Northeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Appendix E Correspondence

Kathy Purvis

From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Monday, March 21, 2022 11:21 AM
To: Joel Lowry; Kathy Purvis
Subject: FW: [EXTERNAL] (Extension Request #1) Raspberry State Com 001H (NAPP2202754237) 01-14-2022

From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Sent: Monday, March 21, 2022 11:20 AM
To: Harris, Jacqui <Jacqui.Harris@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Cc: Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: [EXTERNAL] (Extension Request #1) Raspberry State Com 001H (NAPP2202754237) 01-14-2022

Jacqui,

Extension is granted. Closure report due 06/21/2022.

NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.

Cheers,

Chad Hensley • Environmental Science & Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

811 First St. | Artesia, NM 88210

Office: 575.748.1283 | Cell: 575-703-1723

chad.hensley@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Monday, March 21, 2022 11:06 AM
To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Cc: Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>; Fejervary Morena, Gustavo A

<G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] (Extension Request #1) Raspberry State Com 001H (NAPP2202754237) 01-14-2022

Chad,

Please see the below update and information on this release. The three-month extension was requested to allow adequate time to ensure the remediation was completed to both the NMOCD and landowners' requirements. The closure report should be submitted before the 3-month extension date.

Please see the attached information packet and feel free to share it with Mr. Hensley. As you know, the Landowner/Leasee out there is very involved and can be challenging to deal with. We make great effort to meet his requirements which are often more stringent than the NMOCD's. We just wrapped up a non-reportable release on his ranch and began excavating the subject reportable release site on Friday of last week. Remediation activities are being completed "At-Risk" in accordance with the snip seen below and the attached information packet.

- 1 In accordance with the Surface Use Agreement (SUA), the approximately 4100 Sq Ft of impa characterized by sample points V 1 and V 2 will be excavated to an approximate depth of 1. results indicated TPH concentrations are below the NMOCD Closure Criteria and the require**
- 2 The estimated 240 cubic yards of affected soil expected to be excavated will be temporarily transported to a NMOCD-approved facility.**
- 3 Collect the requisite confirmation samples from the floor and sidewalls of the excavated are certified, commercial laboratory.**
- 4 Upon receiving laboratory analytical results from confirmation soil samples, backfill the exca sourced, non-impacted "like" material.**
- 5 Prepare a *Remediation Summary and Site Closure Request* documenting remediation activit laboratory analysis for submission to the landowner and NMOCD.**

We are collecting excavation confirmation soil samples as we go and I believe we should be receiving some additional lab any day. Also attached are several pictures of the progression of remediation activities. If you have any questions or need any additional information, please feel free to contact me by phone or email. Thanks.

Respectfully,

Joel Lowry

From: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

Sent: Monday, March 21, 2022 7:40 AM

To: Esparza, Brittany <Brittany.Esparza@conocophillips.com>

Cc: Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>;

Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: RE: [EXTERNAL] (Extension Request #1) Raspberry State Com 001H (NAPP2202754237) 01-14-2022

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Brittany,

Please provide more data for your extension request. I will need justification for your request, as in pictures and lab data showing the progress of Conoco Phillips and why you are not able to meet the deadline.

Cheers,

Chad Hensley • Environmental Science & Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
811 First St. | Artesia, NM 88210
Office: 575.748.1283 | Cell: 575-703-1723
chad.hensley@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Monday, March 14, 2022 8:19 AM
To: spills@so.state.nm.us; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: [EXTERNAL] (Extension Request #1) Raspberry State Com 001H (NAPP2202754237) 01-14-2022

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

Under the new spill rule a Work Plan or Closure Report is due for the above release on March 14, 2022. A request for a three-month extension is needed until June 14, 2022 in order to complete remediation.

Please let me know if you have any questions or concerns.

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | **ConocoPhillips**
O: 432-221-0398 | C: 432-349-1911 | 1CC-331 Midland, Texas

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

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

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

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

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

CONDITIONS

Action 115413

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 115413
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/13/2022