District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2201155587
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone *575-748-1838*
Contact email Dale.Woodall@dvn.com	Incident # *(assigned by OCD)*
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.033372 Longitude -103.475663
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cobber 21 CTB 2	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
C	21	26S	34E	LEA

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
nAPP2201155587 Produced Water	Volume Released (bbls) 36.80 bbls	Volume Recovered (bbls) 30 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Water transfer pump developed leak.		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2201155587
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Spill is over 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice given on OCD Portal by Dale Woodall on 1/11/2022	

Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2201155587
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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2201155587
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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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 5/2/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2201155587
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2201155587
District RP	
Facility ID	
Application ID	

Closure

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

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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 5/2/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

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: Jennifer Nobui Date: 05/20/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Souder, Miller & Associates♦201 S. Halagueno St.♦Carlsbad, NM 88220
(575) 689-8801

April 13, 2022

#5E31003-BG4

NMOCD District 1
1625 French Drive
Hobbs, New Mexico 88240

SUBJECT: Remediation Closure Report for the Cobber 21 CTB 2 Releases (NAPP2111347695 and NAPP2201155587), Lea County, New Mexico

1.0 Executive Summary

On behalf of Devon Energy Production Company (Devon), Souder, Miller & Associates (SMA) has prepared this Closure Report that describes sampling activities for two produced water releases related to oil and gas production activities at the Cobber 21 CTB 2 (NAPP2111347695 and NAPP2201155587). The release site is located in Unit C, Section 21, Township 26S, Range 34E, Lea County, New Mexico, on Federal land managed by the Bureau of Land Management (BLM). Figure 1 illustrates the vicinity and site location on a United States Geological Survey (USGS) 7.5-minute quadrangle map.

This report demonstrates that the release area has been remediated to meet the standards of Table I of 19.15.29.12 New Mexico Administrative Code (NMAC). The information provided in this report is intended to fulfill final New Mexico Oil Conservation Division (NMOCD) closure requirements.

SMA recommends no further action and requests that the releases associated with the Cobber 21 CTB 2 Releases (NAPP2111347695 and NAPP2201155587).

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Cobber 21 CTB 2	Company	Devon Energy Production Company
API Number	n/a	Location	32.033372 -103.475663
Tracking Number	NAPP2111347695 and NAPP2201155587		
Estimated Date of Release	March 24, 2021 January 10, 2022	Date Reported to NMOCD	March 29, 2021 January 11, 2022
Land Owner	Federal (BLM)	Reported To	NMOCD District I
Source of Release	Leak from the water transfer pump		
Released Volume	58.2 barrels (bbls) 36.80 bbls	Released Material	Produced Water
Recovered Volume	35 bbls 30 bbls	Net Release	23.2 bbls 6.8 bbls
NMOCD Closure Criteria	<50 feet to groundwater		
SMA Response Dates	March 9, and March 24, 2022		

2.0 Background

On March 24, 2021, a produced water release of 58.2 bbls was discovered at the Cobber 21 CTB 2 site. Initial response activities were conducted by Devon, and included source elimination and site security, containment, and site stabilization activities. Approximately 35 bbls of produced water was recovered. The release was assigned to the compliance agreement between NMOCD and Devon.

A subsequent release occurred on January 10, 2021, releasing 36.8 bbls of produced water at the Cobber 21 CTB 2 site. Initial response activities were conducted by Devon, and included source elimination and site security, containment, and site stabilization activities. Approximately 30 bbls of produced water was recovered.

Figure 1 illustrates the vicinity and site location; Figure 2 illustrates the release location. Copies of the initial C-141 forms are included in Appendix A.

3.0 Site Information and Closure Criteria

The Cobber 21 CTB 2 site is located approximately 17 miles southwest of Jal, New Mexico on Federal (BLM) land at an elevation of approximately 3,311 feet above mean sea level (amsl).

Depth to Groundwater
A search of the New Mexico Office of the State Engineer (OSE) New Mexico Water Rights Reporting System (NMWRRS) and the USGS National Water Information System did not yield any results within ½-mile of the site (Appendix B). Thus, depth to groundwater is considered to be less than 50 feet below grade surface (bgs) for the Closure Criteria determination.

Wellhead Protection Area
There are no known water sources within ½-mile of the location, according to the OSE NMWRRS and USGS National Water Information System. Registered wells in the vicinity are shown on Figure 1.

Distance to Nearest Significant Watercourse
The release site is located approximately 4,260 feet southwest of an ephemeral wash.

Table 2 demonstrates the Closure Criteria applicable to this location. Figures 1 and 2 illustrate the 200 and 300-foot radii which indicate that the site does not lie within a sensitive area as described in Paragraph (4) of Subsection (C) of 19.15.29.12 NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs.

4.0 Release Characterization and Remediation Activities

On March 9, 2022, SMA personnel performed delineation sampling activity throughout the release area. Using a hand auger, samples were collected for field screening. Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. SMA selected four (4) locations (BH01 through BH04) to collect samples for laboratory analysis.

Two (2) discrete samples, ranging in depth, were collected from each of the four (4) boreholes. The samples were collected for laboratory analysis for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel and gasoline range organics (MRO, DRO, and GRO) by USEPA

Method 8015D. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Envirotech Analytical Laboratory in Farmington, New Mexico.

SMA noted that borehole depths remained shallow throughout the immediate area of the release due to auger refusal.

As demonstrated in Table 3, all borehole samples meet NMOCD Closure Criteria.

On March 24, 2022, SMA returned to site to collect closure confirmation samples. Closure confirmation samples were composed of 5-point composites collected every 200 square feet or less in accordance with the sampling protocol included in Appendix C.

Six (6) composite samples were collected for laboratory analysis for total chloride using United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Envirotech Analytical Laboratory in Farmington, New Mexico.

The sample area measured approximately 1,200 square feet.

Sample locations are depicted in Figure 3. A photo log is included in Appendix D. Confirmation laboratory results are summarized in Table 3. Laboratory reports are included in Appendix E.

5.0 Recommendations

As demonstrated in Table 3, all closure confirmation samples meet NMOCD Closure Criteria. The site meets the closure standards of Table I of 19.15.29.12 NMAC.

SMA recommends no further action and requests closure of Incident Numbers NAPP2111347695 and NAPP2201155587.

6.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation guidance; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Ashley Maxwell at 505-320-8975.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:

Ashley Maxwell
Project Scientist

Reid S. Allan, P.G.
Sr. Vice President

REFERENCES:

New Mexico Office of the State Engineer (NMOSE) online water well database
https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 3/18/2022

ATTACHMENTS:

Figures:

Figure 1: Site Map
Figure 2: Surface Water Protection Map
Figure 3: Site and Sample Location Map

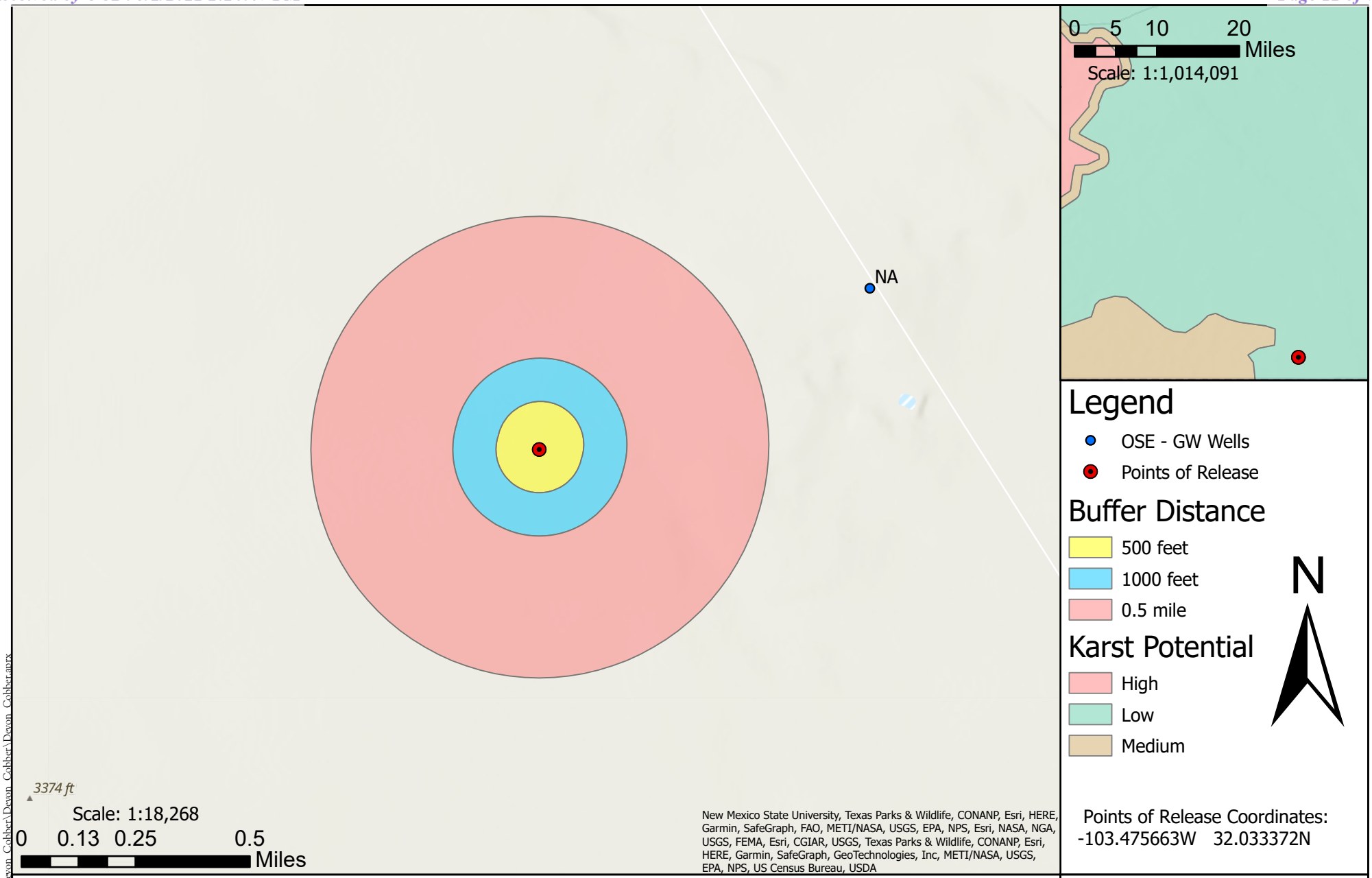
Tables:

Table 2: NMOCD Closure Criteria Justification
Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C-141
Appendix B: Water Well Data
Appendix C: Sampling Protocol
Appendix D: Field Notes and Photo Log
Appendix E: Laboratory Analytical Reports

FIGURES



Points of Release Coordinates:
-103.475663W 32.033372N

Site Map
Cobber 21 CTB 2 - Devon Energy Production Co.
UL: C S: 21 T: 26S R: 34E, Lea County, New Mexico

Figure 1

C:\Users\ks\Desktop\GIS\Devon\Devon_Cobber\Devon_Cobber\Devon_Cobber.aprx
Date Saved: 3/18/2022

Revisions
By:_____ Date:_____ Descr:_____
By:_____ Date:_____ Descr:_____

Drawn Sarahmay Schlea
Date 3/18/2022
Checked
Approved

SMA
Souder, Miller & Associates
Engineering • Environmental
Geomatics

201 South Halaguena Street
Carlsbad, New Mexico 88221
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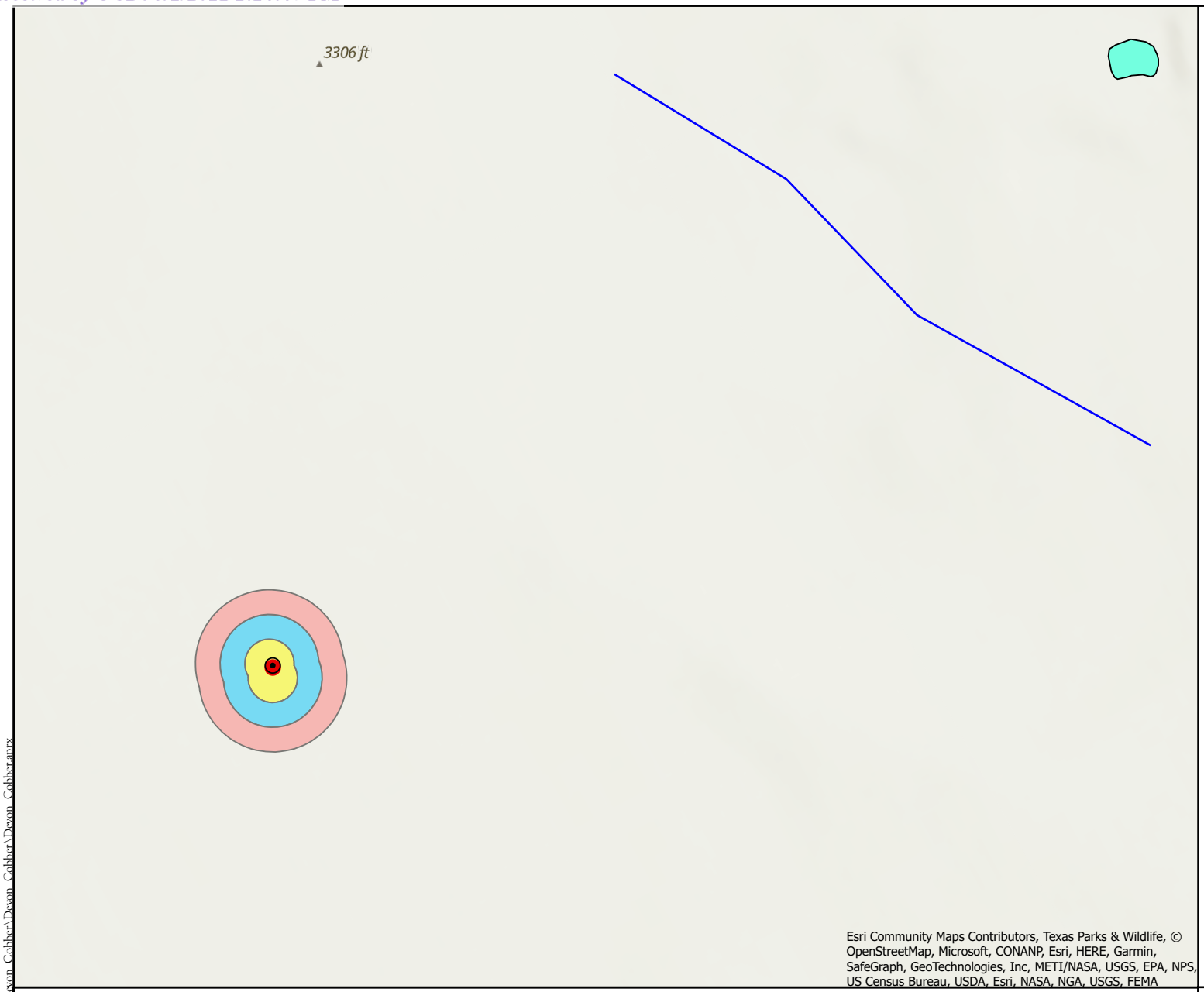

Legend

- PointsofRelease
- Rivers
- Lakes/Playas

Buffer Distance (ft)

- 100
- 200
- 300

N

0 0.05 0.1 0.2 Miles

Scale: 1:7,231

Points of Release Coordinates:
-103.475663W 32.033372N

Surface Water Protection Map
Cobber 21 CTB 2 - Devon Energy Production Co.
UL: C S: 21 T: 26S R: 34E, Lea County, New Mexico

Figure 2

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Date Saved: 3/18/2022

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Sarahmay Schlea
Date 3/18/2022
Checked
Approved

SMA
Souder, Miller & Associates
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Carlsbad, New Mexico 88221
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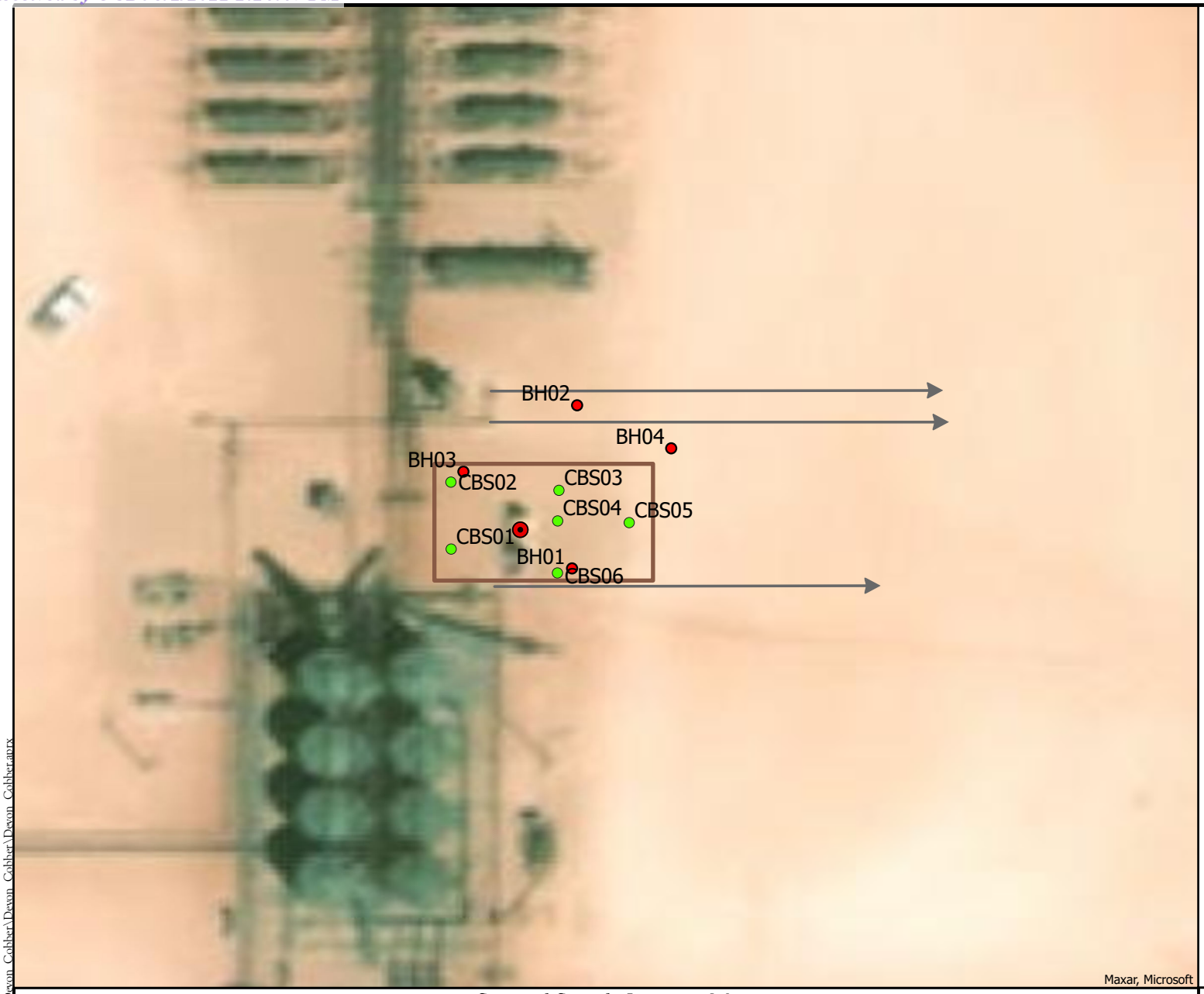

Legend

- Point of Release
- Closure Samples
- Boreholes
- BuriedPipelines
- Release Area

N

0 20 40 80

Feet

Scale: 1:518

Site and Sample Location Map
Cobber 21 CTB 2 - Devon Energy Production Co.
UL: C S: 21 T: 26S R: 34E, Lea County, New Mexico

Figure 3

Revisions
By: Date: Descr:
By: Date: Descr:

Drawn Sarahmay Schlea
Date 4/6/2022
Checked
Approved

SMA
201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689.7040
Serving the Southwest & Rocky Mountains

Date Saved: 3/25/2022
C:\Users\ks\Desktop\GIS\Devon\Devon_Cobber\Devon_Cobber.aprx

TABLES

Table 2:
NMOCD Closure Criteria

Devon Energy Production Company
Cobber 21 CTB 2

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	<50	United States Geological Survey
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	NA	New Mexico Office of the State Engineer
Hortizontal Distance to Nearest Significant Watercourse (ft)	4,260	United States Geological Survey Topo Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		**Closure Criteria (units in mg/kg)**				
		Chloride *numerical limit or background, whichever is greater	**TPH**	**GRO + DRO**	**BTEX**	**Benzene**
< 50' BGS	**X**	**600**	**100**		**50**	**10**
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	**yes or no**	**if yes, then**				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

Table 3:
Sample Results

Devon Energy Production Company
Cobber 21 CTB 2

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D				Method 300.0
			BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria			50	10	100			100	600
Initial Delineation									
BH01	3/9/2022	0-0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**25.4**
	3/9/2022	1	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**68.2**
BH02	3/9/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**24.4**
	3/9/2022	1.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**23.8**
BH03	3/9/2022	0	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**41.8**
	3/9/2022	1	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**27.8**
BH04	3/9/2022	surface	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
	3/9/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
BG	3/9/2022	0.6	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
BG	3/9/2022	1-2	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0

"-" = Not Analyzed
BG: Background sample

Sample ID	Sample Date	Depth of Sample (feet bgs)	Method 8021B		Method 8015D				Method 300.0
			BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure Criteria			50	10	100			100	600
Closure Sampling									
CBS-01	3/24/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**270**
CBS-02	3/24/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**26.4**
CBS-03	3/24/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**77.5**
CBS-04	3/24/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	<20.0
CBS-05	3/24/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**33.7**
CBS-06	3/24/2022	0.5	<0.100	<0.0250	<20.0	<25.0	<50.0	<95.0	**90.3**

"-" = Not Analyzed
BG: Background sample

APPENDIX A

FORM C141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2111347695
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: _____ Title: _____

Signature: Kendra DeHoyos Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 5/9/2021

NAPP2111347695

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	80
Width(Ft)	40
Depth(in.)	1
Total Capacity without tank displacements (bbls)	47.50
No. of 500 bbl Tanks In Standing Fluid	
No. of Other Tanks In Standing Fluid	8.2
OD Of Other Tanks In Standing Fluid(feet)	16
Total Volume of standing fluid accounting for tank displacement.	23.04

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
27018	0.400
Cubic Feet of Soil Impacted	900.600
Barrels of Soil Impacted	160.53
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	24.08
Saturation	Fluid present when squeezed
Estimated Barrels of Oil Released	12.04
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
600	1.250
Standing fluid	11.141
Total fluids spilled	**35.221**

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 25400

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
DEVON ENERGY PRODUCTION COMPAN	333 West Sheridan Ave.	Oklahoma City, OK73102	6137	25400	C-141

OCD Reviewer	Condition
rmarcus	None

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

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Responsible Party

Responsible Party	OGRID
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Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

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

Unit Letter	Section	Township	Range	County

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Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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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: _____ Title: _____

Signature: Kendra DeHoyos Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 1/25/2022

NAPP2201155587

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	100
Width(Ft)	50
Depth(in.)	0.55
Total Capacity without tank displacements (bbls)	**40.82**
No. of 500 bbl Tanks In Standing Fluid	8
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	28.50

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
3220.479	0.500
Cubic Feet of Soil Impacted	134.187
Barrels of Soil Impacted	23.92
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	3.59
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	3.59
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
1282.653	0.250
Standing fluid	4.763
Total fluids spilled	**8.351**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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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 74840

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 74840
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/25/2022

APPENDIX B

WATER WELL DATA

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	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 04583 POD1	CUB	LE	3	3	3	15	26S	34E	644920	3545643	55		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Section(s): 15, 16, 17, 20, 21, 22, 27, 28, 29 **Township:** 26S **Range:** 34E

APPENDIX C

SAMPLING PROTOCOL

Souder, Miller & Associates ♦ 201 S. Halagueno ♦ Carlsbad, NM 88220
(575) 689-8801

Sampling Protocol

The soil samples were collected in laboratory supplied containers in accordance with this sampling protocol, immediately placed on ice and sent under standard chain-of-custody protocols to Envirotech Analytical Laboratory located in Farmington, New Mexico for analysis. Samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

Sampling Analysis Field Quality Assurance Procedures

A unique sample numbering was used to identify each sample collected and designated for on-site and off-site laboratory analysis. The purpose of this numbering scheme was to provide a tracking system for the retrieval of analytical and field data on each sample. Sample identification numbers were recorded on sample labels or tags, field notes, chain-of-custody records (COC) and all other applicable documentation used during the project. Sample labels were affixed to all sample containers during sampling activities. Information was recorded on each sample container label at the time of sample collection. The information recorded on the labels were as follows: sample identification number; sample type (discrete or composite); site name and area/location number; analysis to be performed; type of chemical preservative present in container; date and time of sample collection; and sample collector's name and initials. All samples were packed in ice in an approved rigid body container, custody sealed signed and shipped to the appropriate laboratory via insured currier service.

COC procedures implemented for the project provided documentation of the handling of each sample from the time of collection until completion of laboratory analysis. A COC form serves as a legal record of possession of the sample. A sample is considered to be under custody if one or more of the following criteria are met: the sample is in the sampler's possession; the sample is in the sampler's view after being in possession; the sample was in the sampler's possession and then was placed into a locked area to prevent tampering; and/or the sample is in a designated secure area. Custody was documented throughout the project field sampling activities by a chain-of custody form initiated each day during which samples are collected. Container custody seals placed on either individual samples or on the rigid body container were used to ensure that no sample tampering occurs between the time the samples are placed into the containers and the time the containers are opened for analysis at the laboratory. Container custody seals were signed and dated by the individual responsible for completing the COC form contained within the container.

APPENDIX D

FIELD NOTES

&

PHOTO LOG

SMA Field Screening

Location Name: Devon Cobber; Closure Sampling **Date:** 3/24/22

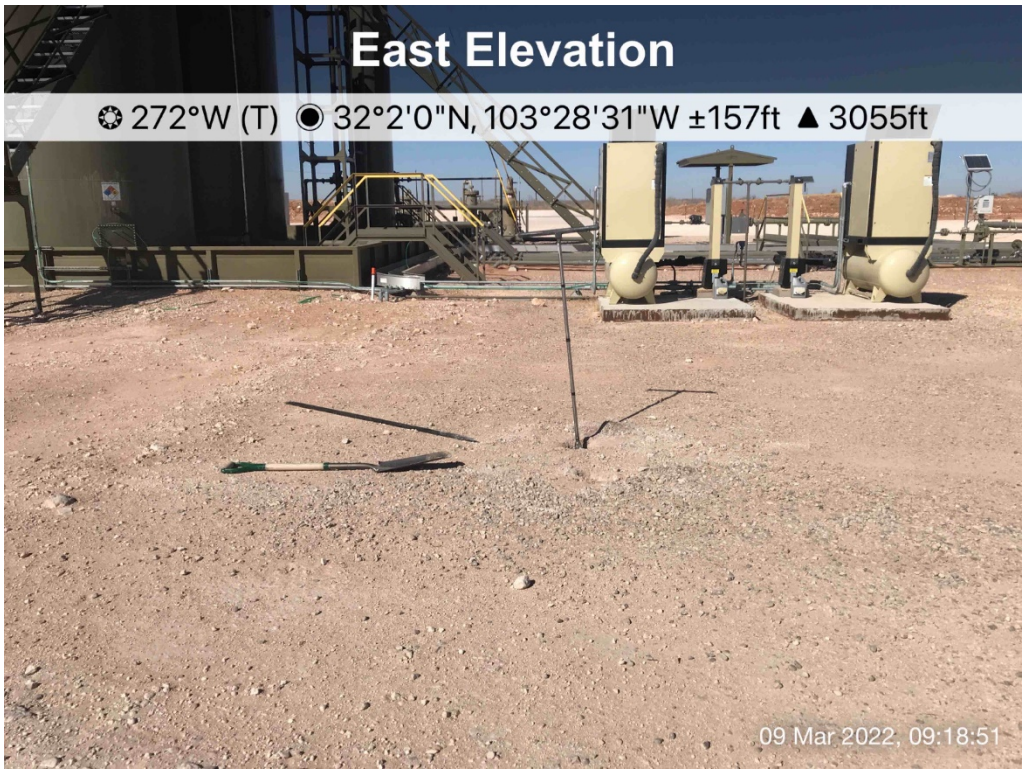
Sample Name:	Collection Time:	EC (mS)	Temp (°C)	PID Reading /PF	Soil Color	Primary Soil Type	Moisture Level	Other Remarks/Notes:
composite CBCS @ 6"	1430	0.63	21.0	0.2	Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	PID for individual samples: M=1.2 SW=1.0 NE=0.3 NW=1.3 SE=0.2
CBS01 @ 6"	1504	0.26	18.3		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CBS02 @ 6"	1512	0.17	18.2		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CBS03 @ 6"	1528	0.14	18.4		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CBS04 @ 6"	1536	0.09	18.5		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CBS05 @ 6"	1545	0.09	18.4		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
CBS06 @ 6"	1555	0.16	18.6		Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	
					Light Dark Tan Brown Gray Olive Yellow Red	Gravel Rock Sand Silt Clay	Dry Moist Wet	


South West Elevation
33°NE (T) 32°1'59"N, 103°28'32"W ±19ft 3317ft
09 Mar 2022, 08:13:41

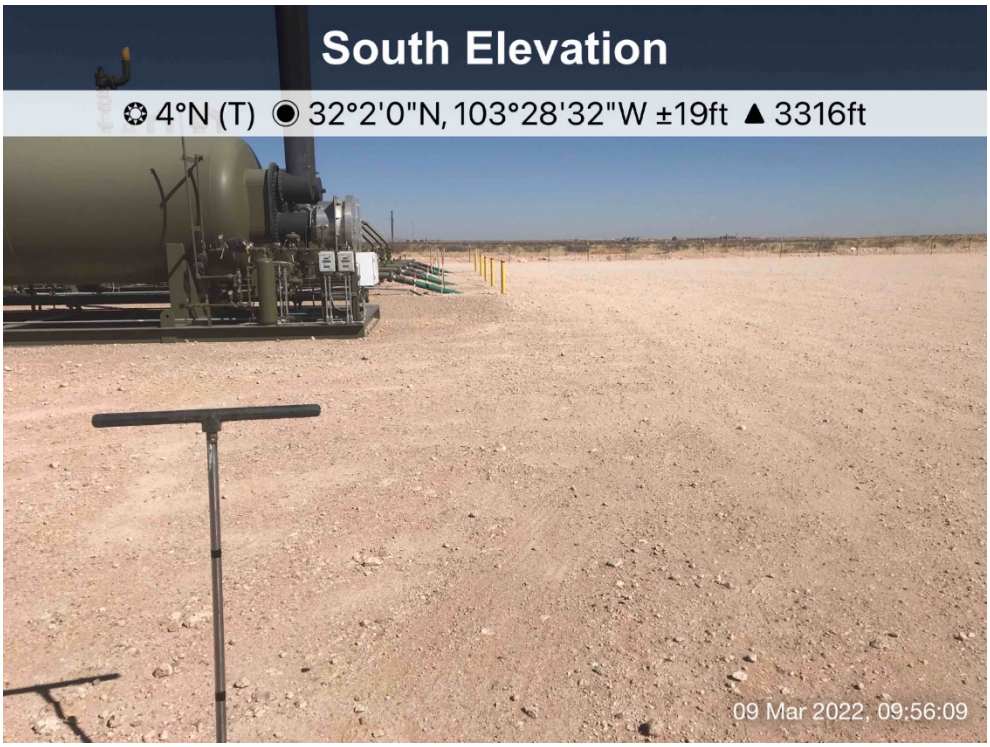

South Elevation
360°N (T) 32°1'59"N, 103°28'32"W ±26ft 3315ft
09 Mar 2022, 08:10:56

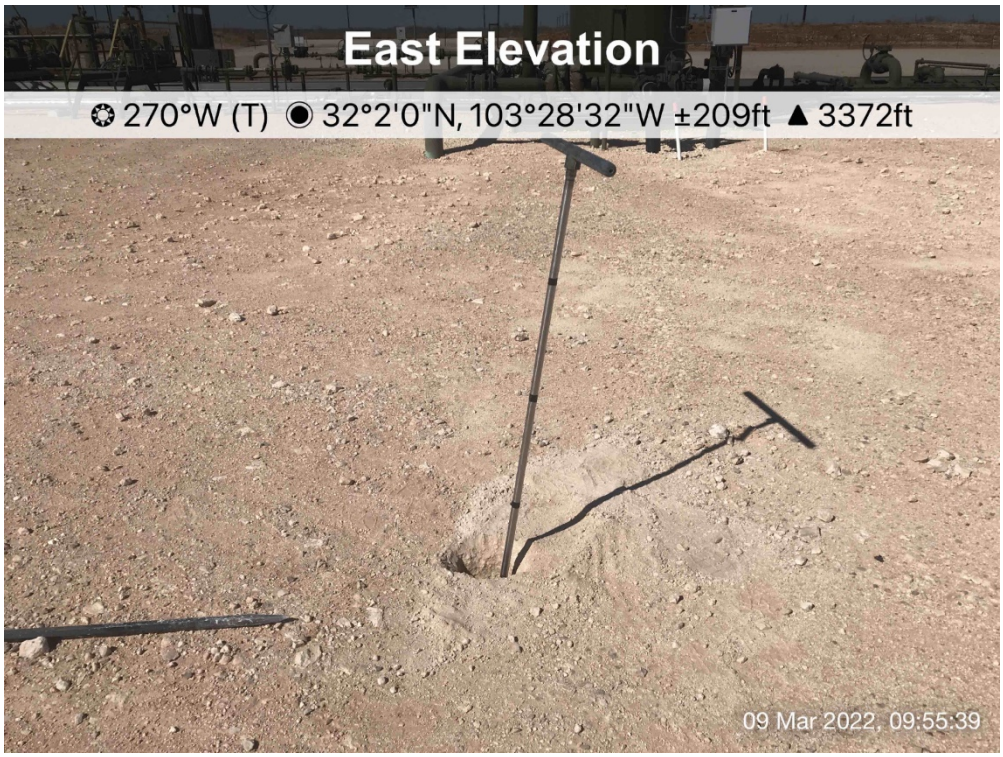

North Elevation
202°S (T) 32°2'0"N, 103°28'32"W ±19ft 3317ft
24 Mar 2022, 14:44:53


North Elevation
180°S (T) 32°2'0"N, 103°28'32"W ±52ft 3317ft
Ingersoll Rand
RS11
USA
24 Mar 2022, 14:49:58


East Elevation
272°W (T) 32°2'0"N, 103°28'31"W ±157ft ▲ 3055ft
09 Mar 2022, 09:18:51


North Elevation
184°S (T) 32°2'0"N, 103°28'32"W ±26ft ▲ 3316ft
09 Mar 2022, 09:55:51


South Elevation
4°N (T) 32°2'0"N, 103°28'32"W ±19ft ▲3316ft
09 Mar 2022, 09:56:09

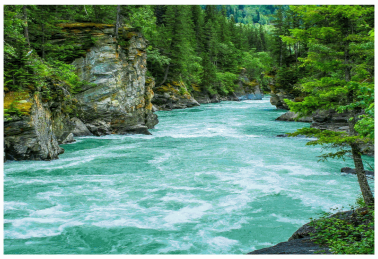

East Elevation
270°W (T) 32°2'0"N, 103°28'32"W ±209ft ▲3372ft
09 Mar 2022, 09:55:39

APPENDIX E

LABORATORY ANALYTICAL REPORTS

Report to:

Ashley Maxwell



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Cobber 21 CTB 2
Work Order:	E203174
Job Number:	01058-0007
Received:	3/28/2022

Revision: 4

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/11/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 4/11/22

Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Cobber 21 CTB 2
Workorder: E203174
Date Received: 3/28/2022 8:15:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2022 8:15:00AM, under the Project Name: Cobber 21 CTB 2.

The analytical test results summarized in this report with the Project Name: Cobber 21 CTB 2 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	04/11/22 14:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CBCS @ 6"	E203174-01A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
CBS - 01	E203174-02A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
CBS - 02	E203174-03A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
CBS - 03	E203174-04A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
CBS - 04	E203174-05A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
CBS - 05	E203174-06A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.
CBS - 06	E203174-07A	Soil	03/24/22	03/28/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

CBS - 01

E203174-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Benzene	ND	0.0250	1	03/30/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/02/22	
Toluene	ND	0.0250	1	03/30/22	04/02/22	
o-Xylene	ND	0.0250	1	03/30/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/02/22	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2214080
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		*112 %*	*50-200*	*04/01/22*	*04/05/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2214056
Chloride	**270**	20.0	1	03/31/22	04/04/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

CBS - 02

E203174-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Benzene	ND	0.0250	1	03/30/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/02/22	
Toluene	ND	0.0250	1	03/30/22	04/02/22	
o-Xylene	ND	0.0250	1	03/30/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/02/22	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2214080
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		*118 %*	*50-200*	*04/01/22*	*04/05/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2214056
Chloride	**26.4**	20.0	1	03/31/22	04/04/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

CBS - 03

E203174-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Benzene	ND	0.0250	1	03/30/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/02/22	
Toluene	ND	0.0250	1	03/30/22	04/02/22	
o-Xylene	ND	0.0250	1	03/30/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/02/22	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2214080
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		*123 %*	*50-200*	*04/01/22*	*04/05/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2214056
Chloride	**77.5**	20.0	1	03/31/22	04/04/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

CBS - 04

E203174-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Benzene	ND	0.0250	1	03/30/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/02/22	
Toluene	ND	0.0250	1	03/30/22	04/02/22	
o-Xylene	ND	0.0250	1	03/30/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/02/22	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2214080
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		*123 %*	*50-200*	*04/01/22*	*04/05/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2214056
Chloride	ND	20.0	1	03/31/22	04/04/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

CBS - 05

E203174-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Benzene	ND	0.0250	1	03/30/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/02/22	
Toluene	ND	0.0250	1	03/30/22	04/02/22	
o-Xylene	ND	0.0250	1	03/30/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/02/22	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2214080
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		*101 %*	*50-200*	*04/01/22*	*04/05/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2214056
Chloride	**33.7**	20.0	1	03/31/22	04/04/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

CBS - 06

E203174-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Benzene	ND	0.0250	1	03/30/22	04/02/22	
Ethylbenzene	ND	0.0250	1	03/30/22	04/02/22	
Toluene	ND	0.0250	1	03/30/22	04/02/22	
o-Xylene	ND	0.0250	1	03/30/22	04/02/22	
p,m-Xylene	ND	0.0500	1	03/30/22	04/02/22	
Total Xylenes	ND	0.0250	1	03/30/22	04/02/22	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2214043
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/30/22	04/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*03/30/22*	*04/02/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2214080
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/22	04/05/22	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/22	04/05/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*04/01/22*	*04/05/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2214056
Chloride	**90.3**	20.0	1	03/31/22	04/05/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2214043-BLK1)									Prepared: 03/30/22 Analyzed: 04/01/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*8.39*		*8.00*		*105*	*70-130*			
LCS (2214043-BS1)									Prepared: 03/30/22 Analyzed: 04/01/22
Benzene	4.59	0.0250	5.00		91.9	70-130			
Ethylbenzene	4.31	0.0250	5.00		86.2	70-130			
Toluene	4.52	0.0250	5.00		90.4	70-130			
o-Xylene	4.50	0.0250	5.00		89.9	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.4	0.0250	15.0		89.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.53*		*8.00*		*107*	*70-130*			
LCS Dup (2214043-BSD1)									Prepared: 03/30/22 Analyzed: 04/01/22
Benzene	5.00	0.0250	5.00		100	70-130	8.50	20	
Ethylbenzene	4.69	0.0250	5.00		93.9	70-130	8.51	20	
Toluene	4.92	0.0250	5.00		98.4	70-130	8.51	20	
o-Xylene	4.90	0.0250	5.00		98.0	70-130	8.61	20	
p,m-Xylene	9.67	0.0500	10.0		96.7	70-130	8.42	20	
Total Xylenes	14.6	0.0250	15.0		97.2	70-130	8.48	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.54*		*8.00*		*107*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2214043-BLK1)									Prepared: 03/30/22 Analyzed: 04/01/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.45*		*8.00*		*93.1*	*70-130*			
LCS (2214043-BS2)									Prepared: 03/30/22 Analyzed: 04/01/22
Gasoline Range Organics (C6-C10)	49.3	20.0	50.0		98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			
LCS Dup (2214043-BSD2)									Prepared: 03/30/22 Analyzed: 04/01/22
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130	3.05	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2214080-BLK1)									Prepared: 04/01/22 Analyzed: 04/02/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.4*		*50.0*		*115*	*50-200*			
LCS (2214080-BS1)									Prepared: 04/01/22 Analyzed: 04/02/22
Diesel Range Organics (C10-C28)	476	25.0	500		95.2	38-132			
Surrogate: n-Nonane	*55.9*		*50.0*		*112*	*50-200*			
Matrix Spike (2214080-MS1)				**Source: E203172-05**					Prepared: 04/01/22 Analyzed: 04/02/22
Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132			
Surrogate: n-Nonane	*57.3*		*50.0*		*115*	*50-200*			
Matrix Spike Dup (2214080-MSD1)				**Source: E203172-05**					Prepared: 04/01/22 Analyzed: 04/02/22
Diesel Range Organics (C10-C28)	485	25.0	500	ND	97.0	38-132	1.64	20	
Surrogate: n-Nonane	*57.3*		*50.0*		*115*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 2:56:34PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2214056-BLK1)									Prepared: 03/31/22 Analyzed: 04/02/22
Chloride	ND	20.0							
LCS (2214056-BS1)									Prepared: 03/31/22 Analyzed: 04/02/22
Chloride	261	20.0	250		105	90-110			
Matrix Spike (2214056-MS1)				**Source: E203172-01**					Prepared: 03/31/22 Analyzed: 04/02/22
Chloride	278	20.0	250	ND	111	80-120			
Matrix Spike Dup (2214056-MSD1)				**Source: E203172-01**					Prepared: 03/31/22 Analyzed: 04/02/22
Chloride	271	20.0	250	ND	108	80-120	2.53	20	

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

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Cobber 21 CTB 2	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	04/11/22 14:56

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

STD

Client: SMA	Bill To
Project: Cobber 21 CTB 2	Attention: Devon
Project Manager:	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email: Ashley Maxwell	WO# 20996758
Report due by:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
PE203174	01058-0007					

State: NM X | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	BGDOC - Tx	Remarks
~~1430~~	~~3/24~~	~~Soil~~	~~1~~	~~CBS @ 6"~~	1							X		per Client 4/6/22
1504			1	CBS-01	2									
1512			1	CBS-02	3									
1528			1	CBS-03	4									
1536			1	CBS-04	5									
1545			1	CBS-05	6									
1555	↓	↓	1	CBS-06	7							X		

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/25/22	0940	[signature]	3/25/22	09:40
[signature]	3/25/22	1600	[signature]	3/26/22	8:15

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 3/28/2022 12:06:08PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/28/22 08:15	Work Order ID:	E203174
Phone:	(505) 325-7535	Date Logged In:	03/25/22 14:40	Logged In By:	Alexa Michaels
Email:	ashley.maxwell@soudermiller.com	Due Date:	04/01/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: UPS
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Ashley Maxwell

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Souder Miller Associates - Carlsbad

Project Name:	Devon Cobber 21 CTB
Work Order:	E203085
Job Number:	01058-0007
Received:	3/14/2022

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/11/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 4/11/22

Ashley Maxwell
201 S Halagueno St.
Carlsbad, NM 88220

Project Name: Devon Cobber 21 CTB
Workorder: E203085
Date Received: 3/14/2022 8:40:00AM

Ashley Maxwell,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2022 8:40:00AM, under the Project Name: Devon Cobber 21 CTB.

The analytical test results summarized in this report with the Project Name: Devon Cobber 21 CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	04/11/22 15:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @ 0-6"	E203085-01A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH01 @ 1'	E203085-02A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH02 @ 0-6"	E203085-03A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH02 @ 1.5'	E203085-04A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH03 @ 0	E203085-05A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH03 @ 10 - 12"	E203085-06A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH04 @ 0	E203085-07A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH04 @ 6"	E203085-08A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BH05 @ 0'	E203085-09A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BG @ 0 - 8"	E203085-10A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.
BG @ 1 - 2'	E203085-11A	Soil	03/09/22	03/14/22	Glass Jar, 4 oz.

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH01 @ 0-6"

E203085-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/17/22	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*03/16/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	**25.4**	20.0	1	03/16/22	03/18/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH01 @ 1'

E203085-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/17/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/17/22	
Surrogate: n-Nonane		*104 %*	*50-200*	*03/16/22*	*03/17/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	**68.2**	20.0	1	03/16/22	03/18/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH02 @ 0-6"

E203085-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*98.9 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	**24.4**	20.0	1	03/16/22	03/18/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH02 @ 1.5'

E203085-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.6 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*95.0 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	**23.8**	20.0	1	03/16/22	03/18/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH03 @ 0

E203085-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.3 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*95.2 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	**41.8**	20.0	1	03/16/22	03/18/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH03 @ 10 - 12"

E203085-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.0 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*91.0 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	**27.8**	20.0	1	03/16/22	03/18/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH04 @ 0

E203085-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*91.6 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.4 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*96.5 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	ND	20.0	1	03/16/22	03/19/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BH04 @ 6''

E203085-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.5 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*101 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	ND	20.0	1	03/16/22	03/19/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BG @ 0 - 8''

E203085-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*99.3 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	ND	20.0	1	03/16/22	03/19/22	

Sample Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

BG @ 1 - 2'

E203085-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Benzene	ND	0.0250	1	03/16/22	03/17/22	
Ethylbenzene	ND	0.0250	1	03/16/22	03/17/22	
Toluene	ND	0.0250	1	03/16/22	03/17/22	
o-Xylene	ND	0.0250	1	03/16/22	03/17/22	
p,m-Xylene	ND	0.0500	1	03/16/22	03/17/22	
Total Xylenes	ND	0.0250	1	03/16/22	03/17/22	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2212046
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/16/22	03/17/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*03/16/22*	*03/17/22*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2212053
Diesel Range Organics (C10-C28)	ND	25.0	1	03/16/22	03/18/22	
Oil Range Organics (C28-C36)	ND	50.0	1	03/16/22	03/18/22	
Surrogate: n-Nonane		*113 %*	*50-200*	*03/16/22*	*03/18/22*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL			Batch: 2212059
Chloride	ND	20.0	1	03/16/22	03/19/22	

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212046-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.39*		*8.00*		*92.4*	*70-130*			
LCS (2212046-BS1)									Prepared: 03/16/22 Analyzed: 03/18/22
Benzene	4.33	0.0250	5.00		86.7	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.1	70-130			
Toluene	4.61	0.0250	5.00		92.2	70-130			
o-Xylene	4.63	0.0250	5.00		92.6	70-130			
p,m-Xylene	9.15	0.0500	10.0		91.5	70-130			
Total Xylenes	13.8	0.0250	15.0		91.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			
Matrix Spike (2212046-MS1)				**Source: E203085-01**					Prepared: 03/16/22 Analyzed: 03/18/22
Benzene	4.17	0.0250	5.00	ND	83.5	54-133			
Ethylbenzene	4.35	0.0250	5.00	ND	87.0	61-133			
Toluene	4.45	0.0250	5.00	ND	88.9	61-130			
o-Xylene	4.46	0.0250	5.00	ND	89.3	63-131			
p,m-Xylene	8.84	0.0500	10.0	ND	88.4	63-131			
Total Xylenes	13.3	0.0250	15.0	ND	88.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.1*	*70-130*			
Matrix Spike Dup (2212046-MSD1)				**Source: E203085-01**					Prepared: 03/16/22 Analyzed: 03/18/22
Benzene	4.30	0.0250	5.00	ND	86.1	54-133	3.05	20	
Ethylbenzene	4.50	0.0250	5.00	ND	89.9	61-133	3.29	20	
Toluene	4.58	0.0250	5.00	ND	91.7	61-130	3.06	20	
o-Xylene	4.63	0.0250	5.00	ND	92.5	63-131	3.60	20	
p,m-Xylene	9.13	0.0500	10.0	ND	91.3	63-131	3.20	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.7	63-131	3.33	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.8*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212046-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.96*		*8.00*		*99.5*	*70-130*			
LCS (2212046-BS2)									Prepared: 03/16/22 Analyzed: 03/18/22
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.13*		*8.00*		*102*	*70-130*			
Matrix Spike (2212046-MS2)				**Source: E203085-01**					Prepared: 03/16/22 Analyzed: 03/18/22
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.11*		*8.00*		*101*	*70-130*			
Matrix Spike Dup (2212046-MSD2)				**Source: E203085-01**					Prepared: 03/16/22 Analyzed: 03/18/22
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.08*		*8.00*		*101*	*70-130*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212053-BLK1)									Prepared: 03/16/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.5*		*50.0*		*92.9*	*50-200*			
LCS (2212053-BS1)									Prepared: 03/16/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	487	25.0	500		97.4	38-132			
Surrogate: n-Nonane	*41.1*		*50.0*		*82.2*	*50-200*			
Matrix Spike (2212053-MS1)				**Source: E203085-02**					Prepared: 03/16/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	487	25.0	500	ND	97.3	38-132			
Surrogate: n-Nonane	*40.2*		*50.0*		*80.5*	*50-200*			
Matrix Spike Dup (2212053-MSD1)				**Source: E203085-02**					Prepared: 03/16/22 Analyzed: 03/17/22
Diesel Range Organics (C10-C28)	498	25.0	500	ND	99.7	38-132	2.40	20	
Surrogate: n-Nonane	*37.8*		*50.0*		*75.6*	*50-200*			

QC Summary Data

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	**Reported:**
201 S Halagueno St.	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	4/11/2022 3:23:47PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2212059-BLK1)									Prepared: 03/16/22 Analyzed: 03/18/22
Chloride	ND	20.0							
LCS (2212059-BS1)									Prepared: 03/16/22 Analyzed: 03/18/22
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2212059-MS1)				**Source: E203085-01**					Prepared: 03/16/22 Analyzed: 03/18/22
Chloride	282	20.0	250	25.4	103	80-120			
Matrix Spike Dup (2212059-MSD1)				**Source: E203085-01**					Prepared: 03/16/22 Analyzed: 03/18/22
Chloride	287	20.0	250	25.4	105	80-120	1.82	20	

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

Definitions and Notes

Souder Miller Associates - Carlsbad	Project Name:	Devon Cobber 21 CTB	
201 S Halagueno St.	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Maxwell	04/11/22 15:23

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

STD 5 day

Project Information	Bill To	Lab Use Only		TAT		EPA Program		
Client: SMA	Attention: Devon	Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
Project: Devon Cobber 21 CTB	Address:	PE203085	01058-0007					
Project Manager: Ashley Maxwell	City, State, Zip	Analysis and Method					State	
Address:	Phone:						NM: X	CO / UT / AZ
City, State, Zip	Email:						TX	OK
Phone:	WO# 20996758							
Email:								
Report due by:								

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
0910	3/9	Soil	1	BH01 @ 0-6"	1									X				
0920	3/9	Soil	1	BH01 @ 1'	2									X				
0943	3/9	Soil	1	BH02 @ 0-6"	3									X				
0950	3/9	Soil	1	BH02 @ 1.5'	4									X				
1009	3/9	Soil	1	BH03 @ 0	5									X				
1018	3/9	Soil	1	BH03 @ 10-12"	6									X				
1032	3/9	Soil	1	BH04 @ 0	7									X				
1040	3/9	Soil	1	BH04 @ 6"	8									X				
~~1051~~	~~3/9~~	~~Soil~~	~~1~~	~~BH05 @ 0'~~										~~X~~				SS
~~1051~~	~~3/9~~	~~Soil~~	~~1~~	~~BH05 @ 0'~~	~~9~~									~~X~~				per client 4/6/22

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/11	1:05	[signature]	3-11-22	1305
[signature]	3-13-22	1745	[signature]	3/14/22	8:40

Lab Use Only

Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

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

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

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

envirotech

Project Information | Chain of Custody | Page 2 of 2

STD 5day

Client: SMA	Bill To
Project: Devon Cobber 21 CTB	Attention: Devon
Project Manager: Ashley Maxwell	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email:	WO# 20996758
Report due by:	

Lab Use Only: Lab WO# PE203085 | Job Number 01058-0007 | TAT: 1D | 3D | EPA Program: RCRA | CWA | SDWA | State: NM X | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
1100	3/9	soil	1	BG @ 0-8"	10						X							
1105	3/9	soil	1	BG @ 1-2'	11						X							

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/11	1:05		3.11.22	1305
	3.13.22	1745		3/14/22	8:40

Lab Use Only: Received on ice: Y / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

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

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

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

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Envirotech Analytical Laboratory

Printed: 3/14/2022 12:20:28PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Souder Miller Associates - Carlsbad	Date Received:	03/14/22 08:40	Work Order ID:	E203085
Phone:	(505) 325-7535	Date Logged In:	03/14/22 10:35	Logged In By:	Caitlin Christian
Email:	ashley.maxwell@soudermiller.com	Due Date:	03/18/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Carrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

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 103330

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 103330
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/20/2022