



To:
NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

From:
Jim Raley – Environmental Specialist
WPX Energy Permian LLC
5315 Buena Vista Drive
Carlsbad NM, 88220
575-689-7597

To whom it may concern,
Please find attached closure report and corrected C-141 for Incident #
(nAPP2134057483) on the C-State 16-2H.

The NOR and initial C-141 for this incident were incorrectly filed under the wrong location C 17 State #002H. I have attached the corrected C-141 with the correct location information attached to the closure report. I was hoping that NMOCD would have the ability to change this location information. Please let me know if there is anything else I need to do to correct this error.

Thank you,

A handwritten signature in black ink, appearing to read "Jim Raley". The signature is fluid and cursive, with a clear start and end stroke.

Jim Raley
Environmental Specialist – WPX Energy/Devon Energy
575-689-7597
jim.ralej@devon.com



CLOSURE REQUEST

DEVON ENERGY COMPANY

Created for submission to New Mexico Oil Conservation Division on 01/18/2022

ASHLEY GIOVENGO
Environmental Manager

ENERGIZING AMERICA

January 18, 2022

Chad Hensley, Victoria Venegas, and/or Robert Hamlet

State of New Mexico

Energy, Minerals, and Natural Resources

New Mexico Oil Conservation Division

811 South First Street

Artesia, New Mexico 88210

RE: CLOSURE REQUEST

COMPANY	Devon Energy
LOCATION	C State 16-2H (submitted as C 17 State #002H on C-141)
API	30-015-44135
PLSS	Unit P Sec 16 T23S R27E
GPS	32.300057, -104.186946
INCIDENT ID	nAPP2134057483

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this closure request on behalf of Devon Energy Company, hereafter referred to as Marathon, regarding the release at the C State 16-2H (Site) located in Unit P, Section 16, Township 23 South and Range 27 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.300057 and West -104.186946. Surface owner of the site is New Mexico State Land. The Site falls within New Mexico Oil Conservation Division (NMOCD), District 2 Artesia.

On November 26, 2021, a produced water line developed a pinhole leak which caused the release of 24 barrels (bbl) of produced water onto the caliche pad. Approximately 3,400 square feet (sq. ft) of the caliche pad was impacted by the release. A skidsteer and hand tools were utilized to remove contaminated soils from the spill area.

SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is 125 feet below ground surface (bgs) and is 0.57 miles Northeast of the Site. Additional wells in the area support the data in the nearest water measurement. No playas or lakes are located within a one-mile radius of this Site. (Attachment C)



KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. The applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX) and, 2500 ppm Total Petroleum Hydrocarbons (TPH), characterization of vertical and horizontal extent of chloride concentration to a level of 20000 mg/kg (ppm) is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
C State 16 2H — 32.300057, -104.186946						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs		125 20000	2500	1000	50	10
Surface Water		If yes, then				
Yes or No						
< 300 feet from continuously flowing watercourse or other significant watercourse?		No				
< 200 feet 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 feet from fresh water well or spring?		No				
Human and Other Areas						
< 300 feet 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 feet from wetland?		No				
Within area overlying a subsurface mine?		No				
Within an unstable area?		No				
Within a 100-year floodplain?		No				

Table: Closure Criteria Statistics



REMEDATION ACTIVITIES

Devon contracted Wescom to conduct onsite remediation activities on December 07, 2021. A skidsteer was used to remove contaminated soil from the surface of the caliche pad and hand tools were used to remove contaminated soil from the areas surrounding the horizontal separators. Impacted material from the surface scrape was transported to an approved disposal facility.

CONFIRMATION SAMPLING

A 48-hour sampling notification was given on December 20, 2021, to Victoria Venegas, Robert Hamlet, Chad Hensley, and Mike Bratcher with the NMOCD in Santa Fe, New Mexico, see Attachment F. Confirmation composite samples were collected from the excavation on December 22, 2021. A background sample for the Site, BG01, was collected 67 feet to the North of the caliche pad and laboratory results are presented in Table 1. All soil samples were properly packaged, preserved, and transported to Envirotech Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH—Method 8015M/D, BTEX—Method 8021B, and Chlorides—Method 300.0. All confirmation samples were below the applicable RRAL for the Site as shown in Table 1.

REQUEST FOR CLOSURE

Based on the attached confirmation sample laboratory data, depth to ground water and the fact that impacted material from this release has been removed and properly disposed of; Devon hereby requests closure for nAPP2134057483. Devon also requests that no further action be taken at this time.

Sincerely,

Wescom, Inc.

Ashley Giovengo

Environmental Manager-Permian

cc: Jim Raley, Devon Energy
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD
Mike Bratcher, NMOCD
Chad Hensley, NMOCD



REFERENCE MATERIALS

FIGURES

FIGURE 1. Confirmation Sampling

TABLES

TABLE 1. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A. Signed C-141

ATTACHMENT B. Site Photos

ATTACHMENT C. Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map

ATTACHMENT E. Envirotech Inc. Laboratory Analysis Reports

ATTACHMENT F. 48-Hour Confirmation Sample Notification Emails



FIGURE 1

Confirmation Samples



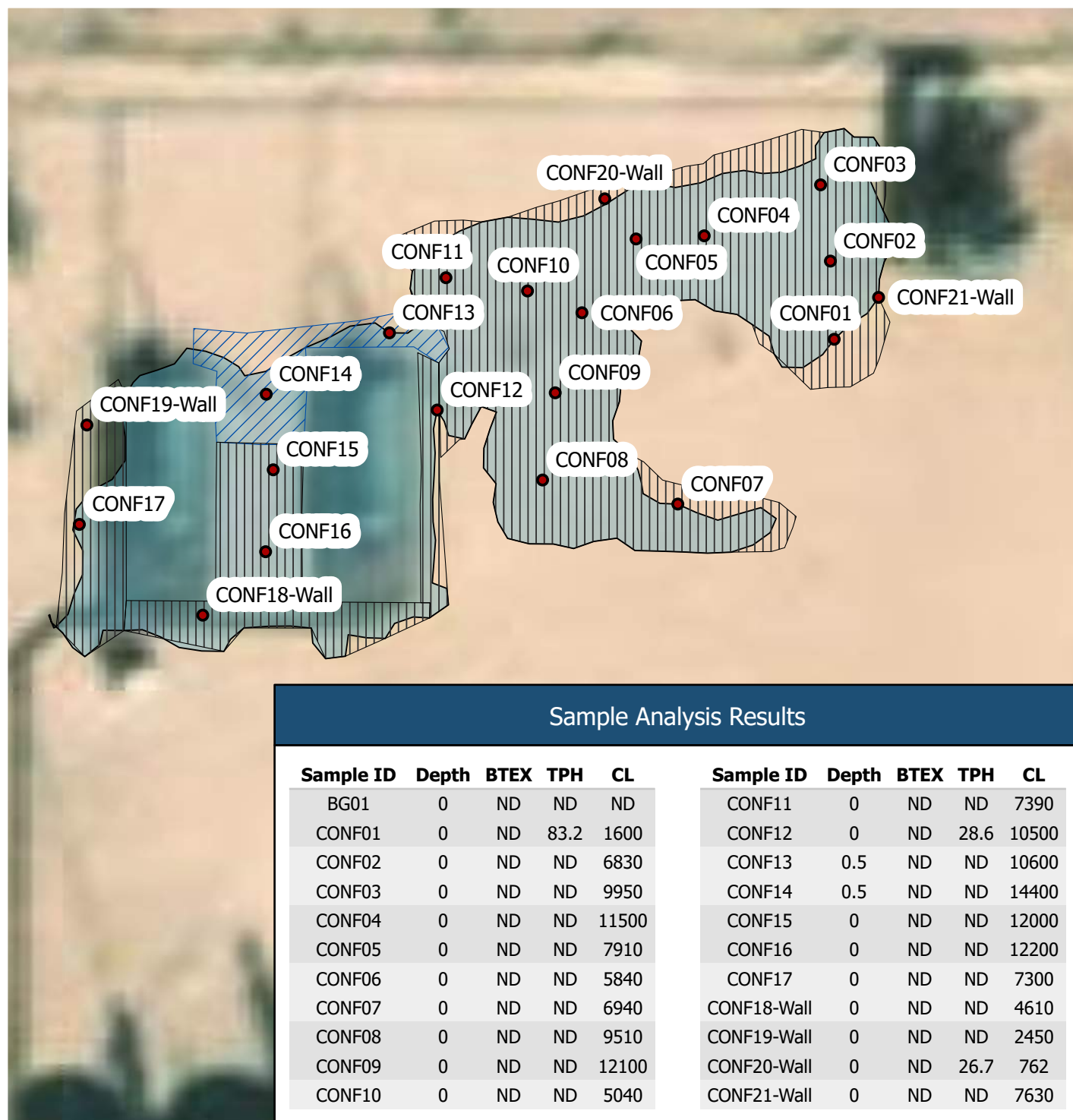


FIGURE 1.
CONFIRMATION SAMPLING

C State 16-2H
 Incident ID: nAPP2134057483
 API: 30-015-44135
 GPS Coordinates: 32.300057, -104.186946
 Eddy County, New Mexico
 Devon Energy

LEGEND

- Confirmation Sample Points
- ▨ 0' Excavation
- ▨ 0.5' Excavation
- Spill Area



TABLE 1

Laboratory Analysis Results: Confirmation Samples



C State 16 2H nAPP2134057483							
Devon Energy 01.13.2022							
Table 1. Confirmation Laboratory Analysis Results							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mk/kg)
			Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	GRO+DRO (mk/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF01	0	12/22/2021	ND	ND	83.2	ND	1600
CONF02	0	12/22/2021	ND	ND	ND	ND	6830
CONF03	0	12/22/2021	ND	ND	ND	ND	9950
CONF04	0	12/22/2021	ND	ND	ND	ND	11500
CONF05	0	12/22/2021	ND	ND	ND	ND	7910
CONF06	0	12/22/2021	ND	ND	ND	ND	5840
CONF07	0	12/22/2021	ND	ND	ND	ND	6940
CONF08	0	12/22/2021	ND	ND	ND	ND	9510
CONF09	0	12/22/2021	ND	ND	ND	ND	12100
CONF10	0	12/22/2021	ND	ND	ND	ND	5040
CONF11	0	12/22/2021	ND	ND	ND	ND	7390
CONF12	0	12/22/2021	ND	ND	28.6	28.6	10500
CONF13	0.5	12/22/2021	ND	ND	ND	ND	10600
CONF14	0.5	12/22/2021	ND	ND	ND	ND	14400
CONF15	0	12/22/2021	ND	ND	ND	ND	12000
CONF16	0	12/22/2021	ND	ND	ND	ND	12200
CONF17	0	12/22/2021	ND	ND	ND	ND	7300
CONF18-Wall	0	12/22/2021	ND	ND	ND	ND	4610
CONF19-Wall	0	12/22/2021	ND	ND	ND	ND	2450
CONF20-Wall	0	12/22/2021	ND	ND	26.7	26.7	762
CONF21-Wall	0	12/22/2021	ND	ND	ND	ND	7630
BG01	0	12/22/2021	ND	ND	ND	ND	ND
BG01	1	12/22/2021	ND	ND	ND	ND	ND
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

C State 16-2H Incident ID: nAPP2134057483

ATTACHMENT A

Signed C-141



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

C State 16-2H Incident ID: nAPP2134057483

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	nAPP2134057483
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.ralej@div.com	Incident # (assigned by OCD) nAPP2134057483
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.3000574 _____ Longitude -104.1869457 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: C STATE 16 #002H	Site Type: Oil Production Facility
Date Release Discovered: November 26 th , 2021	API# (if applicable) 30-015-44135

Unit Letter	Section	Township	Range	County
P	16	23S	27E	Eddy

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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls) 0	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 24	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Produced water line developed pinhole leak allowing for release of approx. 24 bbls produced water to pad surface.


Spill sqft. \times (porosity) \times (6.41187384 bbls fluid/1 cubic yard) = approximately 24 bbls released fluids.

Incident ID	nAPP2134057483
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>James Raley</u> Title: Environmental Specialist _____	
Signature:  _____ Date: <u>12/06/2021</u>	
email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>	
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAPP2134057483
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>110</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2134057483
District RP	
Facility ID	
Application ID	

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

Printed Name: Jim Raley

Title: Environmental Specialist

Signature: 

Date: 2/21/2022

email: jim.raley@dvni.com

Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2134057483
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: Jim Raley

Title: Environmental Specialist

Signature: _____

Date: 2/21/2022

email: jim.raley@dv.com

Telephone: 575-689-7597

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: 03/04/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

ATTACHMENT B

Site Photos



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

C State 16-2H Incident ID: nAPP2134057483

C State 16 2H
Incident ID: nAPP2134057483



Initial Spill Area (On-Pad)



Initial Spill Area (On-Pad)

C State 16 2H
Incident ID: nAPP2134057483



Initial Spill Area (On-Pad)



Initial Spill Area (On-Pad)

C State 16 2H
Incident ID: nAPP2134057483



Spill Cleanup (Between Separators)



Spill Cleanup (South of Separators)

C State 16 2H
Incident ID: nAPP2134057483



Spill Cleanup (West of Separators)



Spill Cleanup (North of Separators)

C State 16 2H
Incident ID: nAPP2134057483



Spill Cleanup (East of Separators)

ATTACHMENT C




Closure Criteria Supporting Documents



C State 16 2H

Distance to nearest Depth to Water = .57 miles

Legend

-  C State 16 2H
-  Distance = .57 miles
-  DTW = 125ft C 00187



Google Earth




1000 ft



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)		(NAD83 UTM in meters)					
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	00187	1	1	4	15	23S	27E	577380	3574509 

Driller License:	1654	Driller Company:	NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
Driller Name:	SIRMAN, JOHN			
Drill Start Date:	09/01/2015	Drill Finish Date:	09/01/2015	Plug Date:
Log File Date:	09/21/2015	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 75 GPM
Casing Size:	6.00	Depth Well:	210 feet	Depth Water: 125 feet

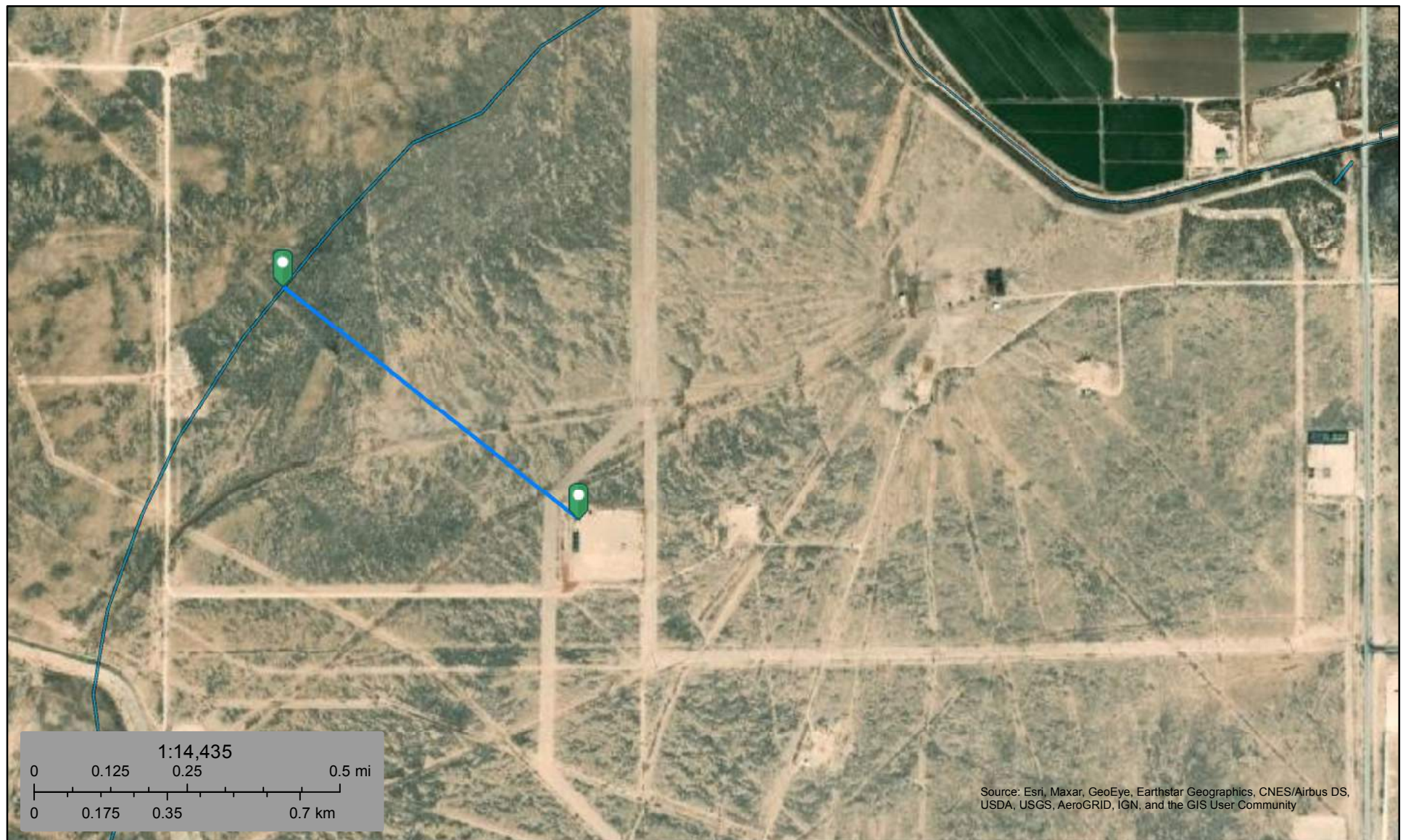
Water Bearing Stratifications:	Top	Bottom	Description
	125	210	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	140	160
	180	200

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



C State 16 2H - Riverine 2,747ft



December 3, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

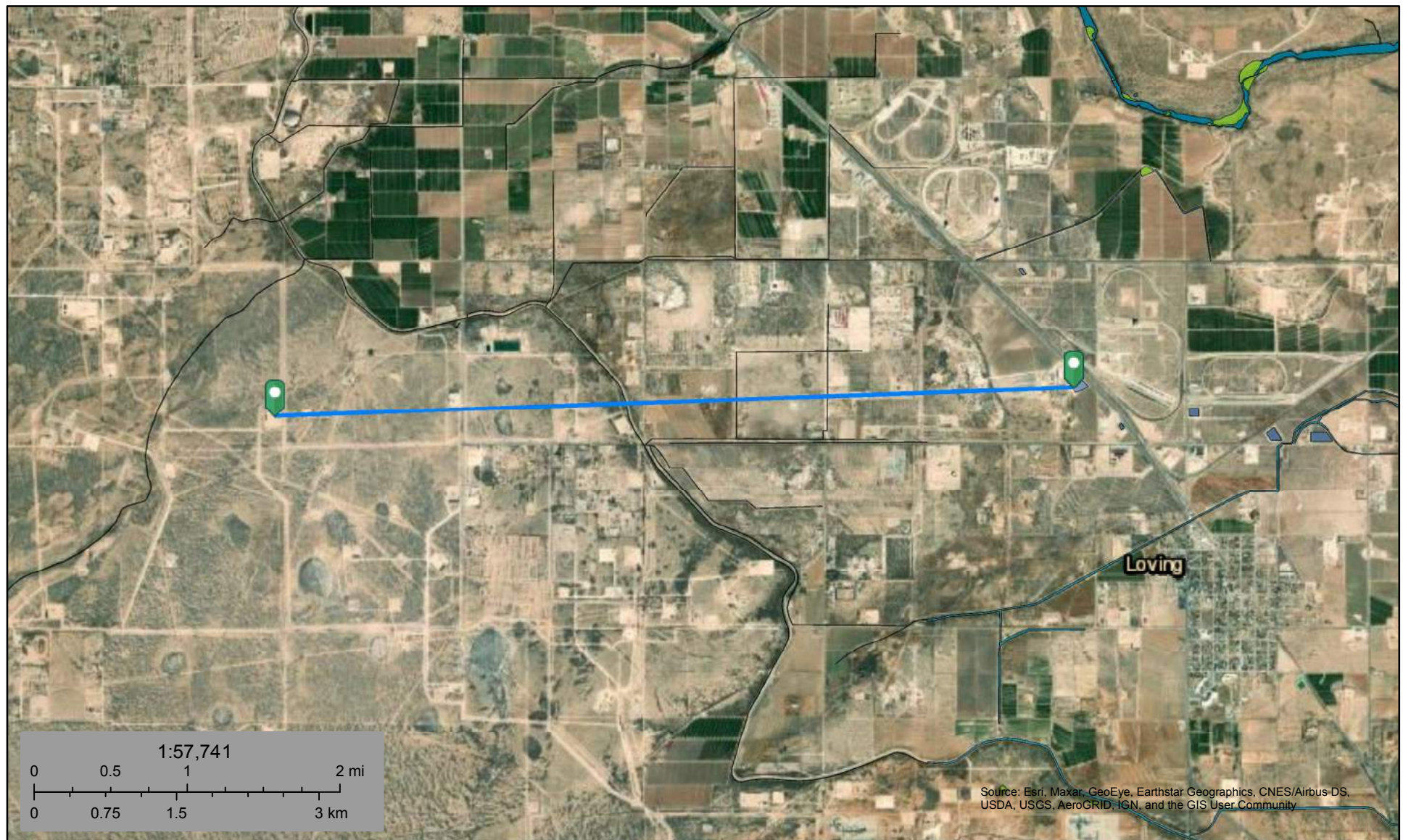
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



C State 16 2H - Freshwater Pond 23,380ft



December 6, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

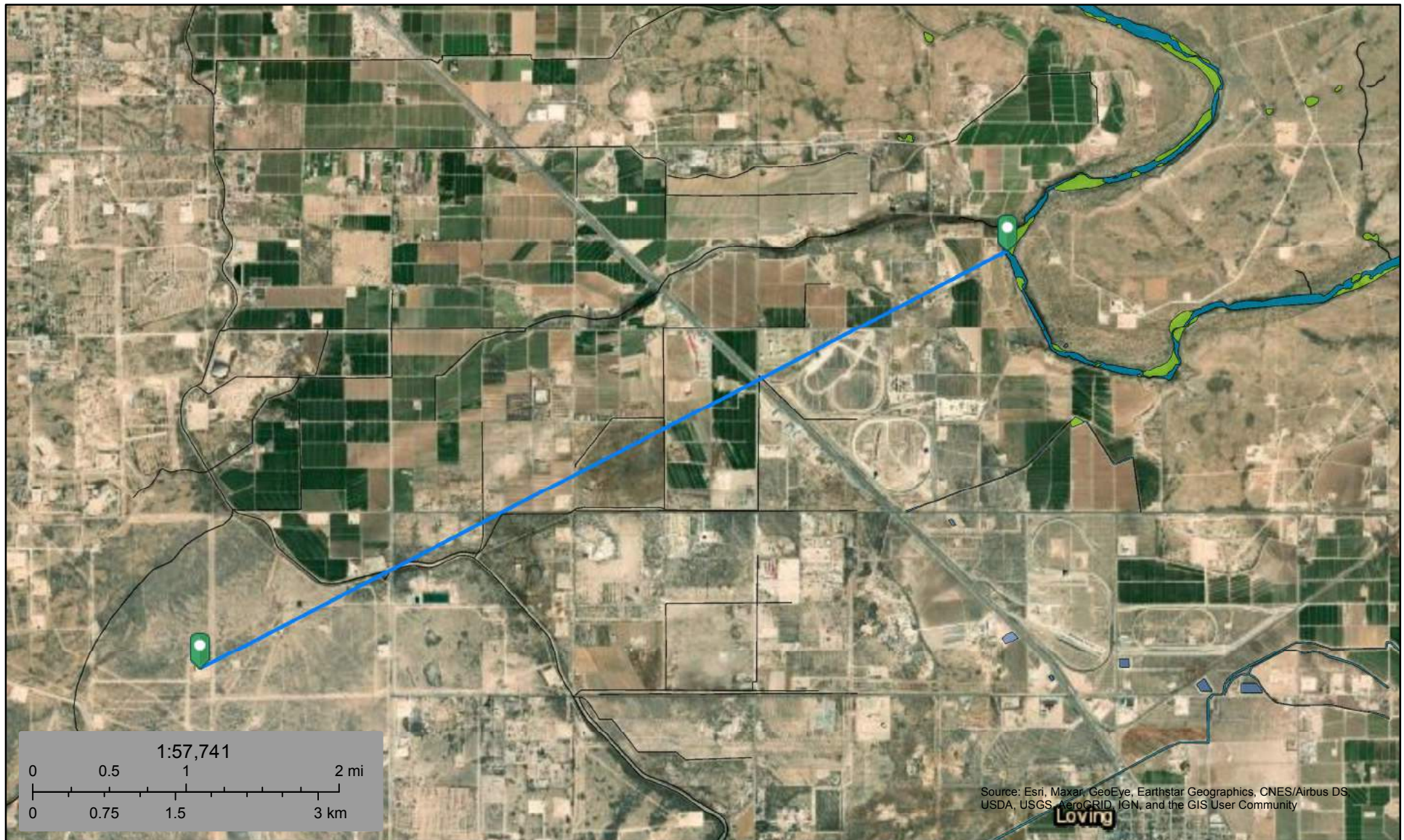
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



C State 16 2H - Wetland 26,492ft



December 6, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond




- Lake
- Other
- Riverine

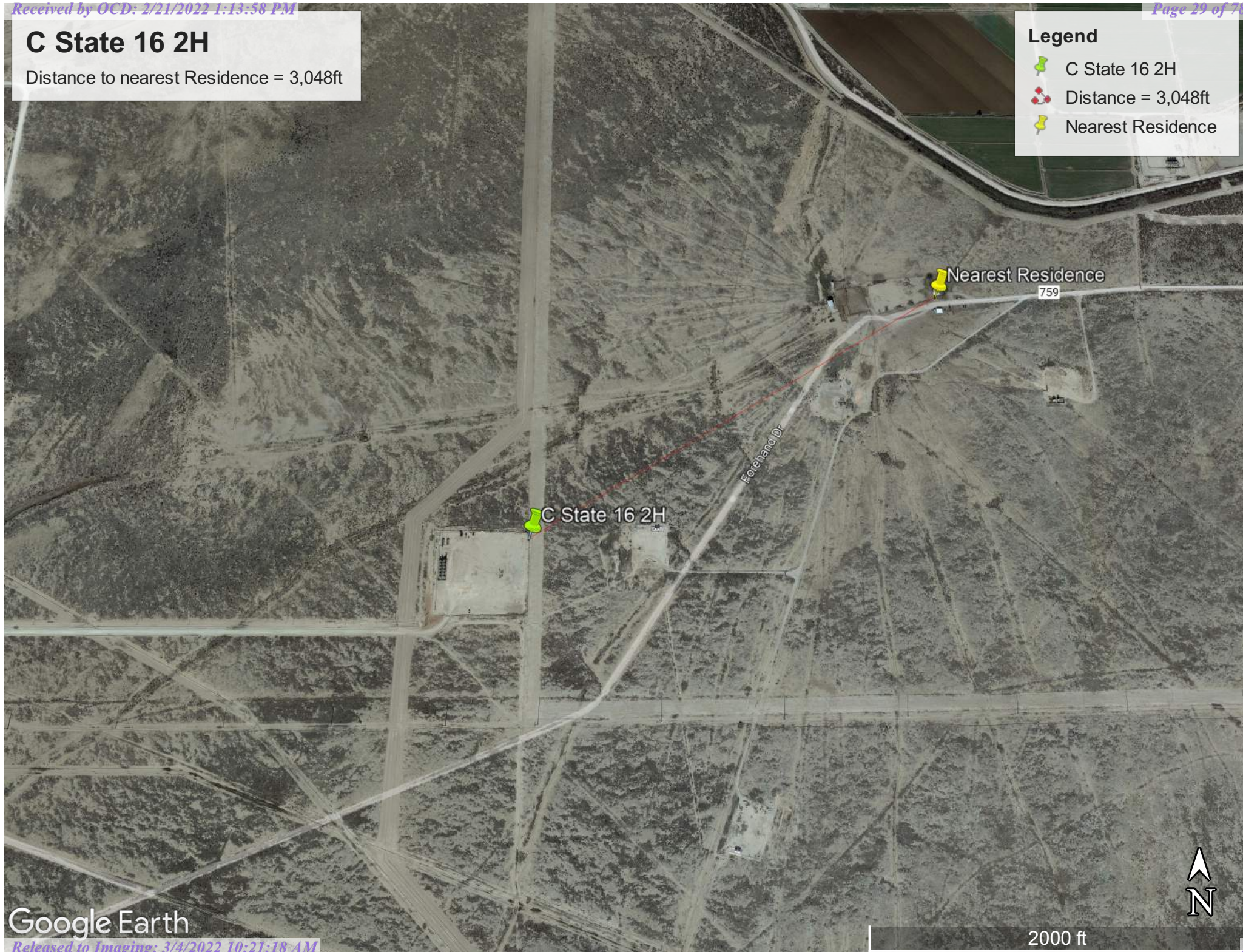
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

C State 16 2H

Distance to nearest Residence = 3,048ft

Legend

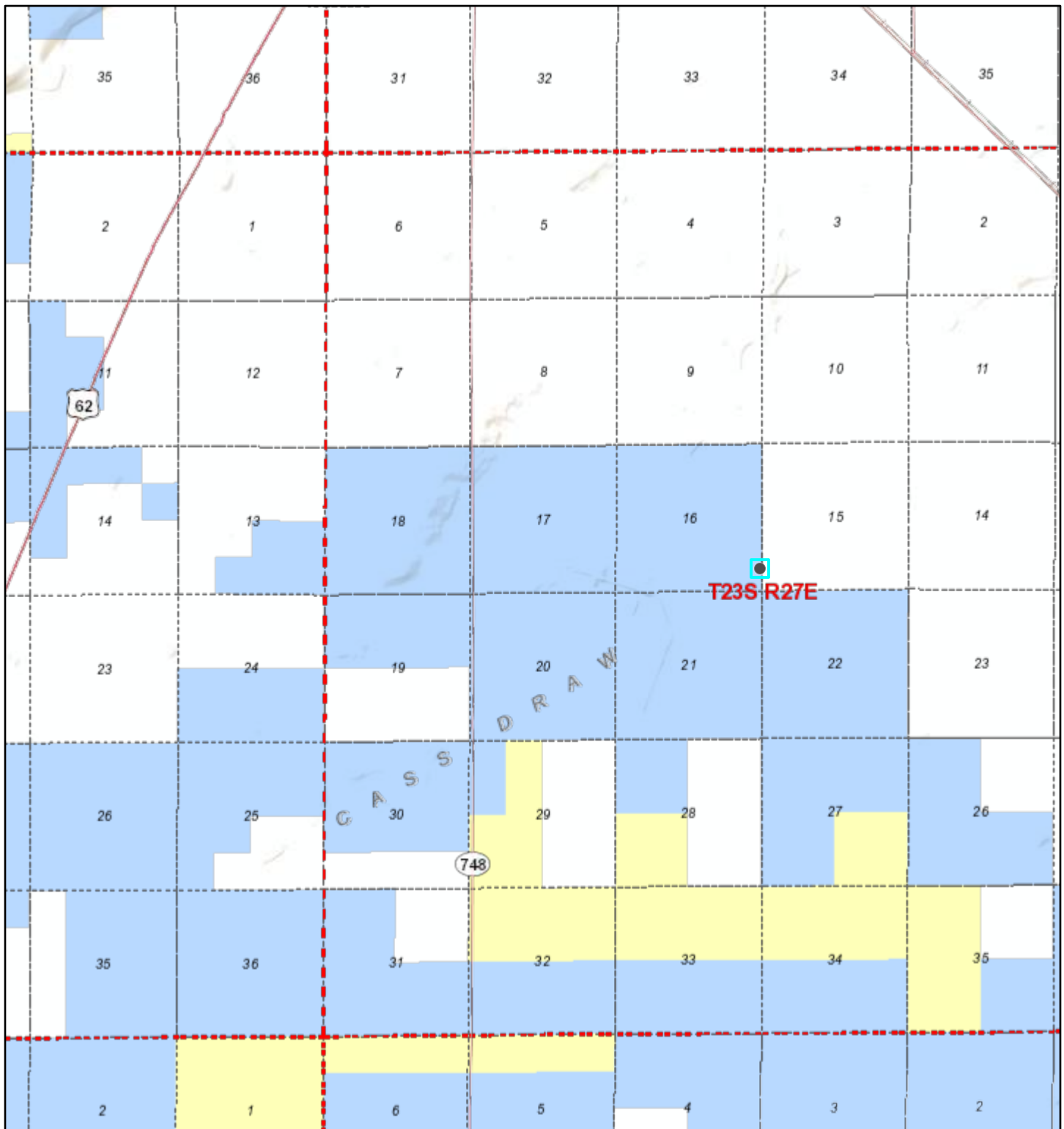
-  C State 16 2H
-  Distance = 3,048ft
-  Nearest Residence



Google Earth

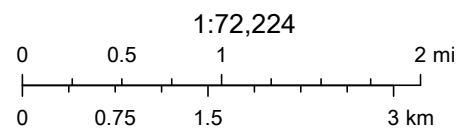
2000 ft

Active Mines Near C State 16 2H



12/6/2021, 7:48:15 AM

- Township / Range
 --- Sections
 Land Ownership
 Bureau of Land Management
 Bureau of Reclamation
 Department of Agriculture
 Department of Defense
 Department of Energy
 National Park Service
 Private Land
 State Game and Fish
 State Land
 State Parks
 Tribal



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

National Flood Hazard Layer FIRMMette



104°11'32"W 32°18'15"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/3/2021 at 3:34 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ATTACHMENT D

Karst Map



Energizing America

wescominc.com | info@wescominc.com | 218-724-1322


C State 16-2H Incident ID: nAPP2134057483

C State 16 2H

Karst Potential = Medium

Legend

-  C State 16 2H
-  High
-  Low
-  Medium

 C State 16 2H

Forehand Dr



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports



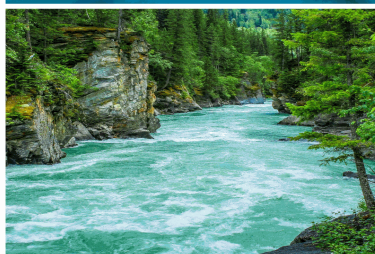
Energizing America

wescominc.com | info@wescominc.com | 218-724-1322

C State 16-2H Incident ID: nAPP2134057483

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: C State 16 2H

Work Order: E112100

Job Number: 01058-0007

Received: 12/30/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/5/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 1/5/22

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: C State 16 2H
Workorder: E112100
Date Received: 12/30/2021 10:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/30/2021 10:30:00AM, under the Project Name: C State 16 2H.

The analytical test results summarized in this report with the Project Name: C State 16 2H 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 regarding 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
ljjarboe@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

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BG01-0'	6
BG01-1'	7
CONF 01-0'	8
CONF 02-0'	9
CONF 03-0'	10
CONF 04-0'	11
CONF 05-0'	12
CONF 06-0'	13
CONF 07-0'	14
CONF 08-0'	15
CONF 09-0'	16
CONF 10-0'	17
CONF 11-0'	18
CONF 12-0'	19
CONF 13-.5'	20
CONF 14-.5'	21
CONF 15-0'	22
CONF 16-0'	23
CONF 17-0'	24
CONF 18- Wall 0'	25

Table of Contents (continued)

CONF 19 - Wall 0'	26
CONF 20- Wall 0'	27
CONF 21- Wall 0'	28
QC Summary Data	29
QC - Volatile Organics by EPA 8021B	29
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	35
Definitions and Notes	37
Chain of Custody etc.	38

Sample Summary

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/05/22 13:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01-0'	E112100-01A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
BG01-1'	E112100-02A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 01-0'	E112100-03A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 02-0'	E112100-04A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 03-0'	E112100-05A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 04-0'	E112100-06A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 05-0'	E112100-07A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 06-0'	E112100-08A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 07-0'	E112100-09A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 08-0'	E112100-10A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 09-0'	E112100-11A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 10-0'	E112100-12A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 11-0'	E112100-13A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 12-0'	E112100-14A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 13-.5'	E112100-15A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 14-.5'	E112100-16A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 15-0'	E112100-17A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 16-0'	E112100-18A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 17-0'	E112100-19A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 18- Wall 0'	E112100-20A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 19 - Wall 0'	E112100-21A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 20- Wall 0'	E112100-22A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.
CONF 21- Wall 0'	E112100-23A	Soil	12/22/21	12/30/21	Glass Jar, 4 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: C State 16 2H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/5/2022 1:01:47PM
---	---	---------------------------------

BG01-0'

E112100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
Surrogate: n-Nonane	115 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	ND	20.0	1	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

BG01-1'

E112100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	121 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	ND	20.0	1	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 01-0'

E112100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	83.2	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	1600	20.0	1	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 02-0'

E112100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/30/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/30/21	
Toluene	ND	0.0250	1	12/30/21	12/30/21	
o-Xylene	ND	0.0250	1	12/30/21	12/30/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/30/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/30/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/30/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	6830	100	5	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 03-0'

E112100-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	9950	200	10	01/03/22	01/03/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 04-0'

E112100-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	11500	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 05-0'

E112100-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	7910	200	10	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 06-0'

E112100-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/30/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/30/21	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		12/30/21	12/30/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	5840	200	10	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 07-0'

E112100-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	6940	200	10	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 08-0'

E112100-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	9510	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 09-0'

E112100-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2153026
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2153026
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KL		Batch: 2153027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2202001
Chloride	12100	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 10-0'

E112100-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	5040	100	5	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 11-0'

E112100-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	7390	200	10	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 12-0'

E112100-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	28.6	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	10500	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 13--5'

E112100-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	10600	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 14-.5'

E112100-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	14400	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 15-0'

E112100-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	12000	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 16-0'

E112100-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	12200	400	20	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 17-0'

E112100-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	133 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	7300	200	10	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 18- Wall 0'

E112100-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Benzene	ND	0.0250	1	12/30/21	12/31/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/31/21	
Toluene	ND	0.0250	1	12/30/21	12/31/21	
o-Xylene	ND	0.0250	1	12/30/21	12/31/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/31/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/31/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/31/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		12/30/21	12/31/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153027	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202001	
Chloride	4610	100	5	01/03/22	01/04/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 19 - Wall 0'

E112100-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153025	
Benzene	ND	0.0250	1	12/30/21	12/30/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/30/21	
Toluene	ND	0.0250	1	12/30/21	12/30/21	
o-Xylene	ND	0.0250	1	12/30/21	12/30/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/30/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/30/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/30/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202002	
Chloride	2450	20.0	1	01/03/22	01/03/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 20- Wall 0'

E112100-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153025	
Benzene	ND	0.0250	1	12/30/21	12/30/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/30/21	
Toluene	ND	0.0250	1	12/30/21	12/30/21	
o-Xylene	ND	0.0250	1	12/30/21	12/30/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/30/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/30/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/30/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153031	
Diesel Range Organics (C10-C28)	26.7	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202002	
Chloride	762	20.0	1	01/03/22	01/03/22	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: C State 16 2H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
1/5/2022 1:01:47PM

CONF 21- Wall 0'

E112100-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153025	
Benzene	ND	0.0250	1	12/30/21	12/30/21	
Ethylbenzene	ND	0.0250	1	12/30/21	12/30/21	
Toluene	ND	0.0250	1	12/30/21	12/30/21	
o-Xylene	ND	0.0250	1	12/30/21	12/30/21	
p,m-Xylene	ND	0.0500	1	12/30/21	12/30/21	
Total Xylenes	ND	0.0250	1	12/30/21	12/30/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/30/21	12/30/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		12/30/21	12/30/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153031	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/30/21	12/31/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/30/21	12/31/21	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		12/30/21	12/31/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2202002	
Chloride	7630	200	10	01/03/22	01/03/22	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2153025-BLK1)

Prepared: 12/30/21 Analyzed: 12/30/21

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	7.76		8.00		97.0	70-130			

LCS (2153025-BS1)

Prepared: 12/30/21 Analyzed: 12/30/21

Benzene	4.73	0.0250	5.00		94.6	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.2	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2153025-MS1)

Source: E112098-02

Prepared: 12/30/21 Analyzed: 12/30/21

Benzene	4.73	0.0250	5.00	ND	94.6	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.4	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2153025-MSD1)

Source: E112098-02

Prepared: 12/30/21 Analyzed: 12/30/21

Benzene	4.66	0.0250	5.00	ND	93.2	54-133	1.48	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	1.32	20	
Toluene	5.00	0.0250	5.00	ND	100	61-130	1.28	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	1.14	20	
p,m-Xylene	9.78	0.0500	10.0	ND	97.8	63-131	1.20	20	
Total Xylenes	14.5	0.0250	15.0	ND	97.0	63-131	1.18	20	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2153026-BLK1)

Prepared: 12/30/21 Analyzed: 12/30/21

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	7.65		8.00		95.6	70-130			

LCS (2153026-BS1)

Prepared: 12/30/21 Analyzed: 12/30/21

Benzene	4.88	0.0250	5.00		97.6	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.2	70-130			
Toluene	4.95	0.0250	5.00		99.0	70-130			
o-Xylene	4.89	0.0250	5.00		97.9	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

Matrix Spike (2153026-MS1)

Source: E112100-04

Prepared: 12/30/21 Analyzed: 12/30/21

Benzene	4.87	0.0250	5.00	ND	97.5	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.7	61-133			
Toluene	4.94	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.3	70-130			

Matrix Spike Dup (2153026-MSD1)

Source: E112100-04

Prepared: 12/30/21 Analyzed: 12/30/21

Benzene	4.85	0.0250	5.00	ND	97.0	54-133	0.465	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133	0.0855	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	0.325	20	
o-Xylene	4.86	0.0250	5.00	ND	97.1	63-131	0.273	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	0.160	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131	0.0145	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2153025-BLK1)

Prepared: 12/30/21 Analyzed: 12/30/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			

LCS (2153025-BS2)

Prepared: 12/30/21 Analyzed: 12/30/21

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.17		8.00		102	70-130			

Matrix Spike (2153025-MS2)

Source: E112098-02

Prepared: 12/30/21 Analyzed: 12/30/21

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.10		8.00		101	70-130			

Matrix Spike Dup (2153025-MSD2)

Source: E112098-02

Prepared: 12/30/21 Analyzed: 12/30/21

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.4	70-130	0.577	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2153026-BLK1)

Prepared: 12/30/21 Analyzed: 12/30/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

LCS (2153026-BS2)

Prepared: 12/30/21 Analyzed: 12/30/21

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike (2153026-MS2)

Source: E112100-04

Prepared: 12/30/21 Analyzed: 12/31/21

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2153026-MSD2)

Source: E112100-04

Prepared: 12/30/21 Analyzed: 12/31/21

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	8.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2153027-BLK1)

Prepared: 12/30/21 Analyzed: 12/30/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.5		50.0		113	50-200			

LCS (2153027-BS1)

Prepared: 12/30/21 Analyzed: 12/30/21

Diesel Range Organics (C10-C28)	561	25.0	500		112	38-132			
Surrogate: n-Nonane	57.1		50.0		114	50-200			

Matrix Spike (2153027-MS1)

Source: E112100-01

Prepared: 12/30/21 Analyzed: 12/30/21

Diesel Range Organics (C10-C28)	562	25.0	500	ND	112	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike Dup (2153027-MSD1)

Source: E112100-01

Prepared: 12/30/21 Analyzed: 12/30/21

Diesel Range Organics (C10-C28)	569	25.0	500	ND	114	38-132	1.28	20	
Surrogate: n-Nonane	57.0		50.0		114	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2153031-BLK1)

Prepared: 12/30/21 Analyzed: 12/31/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.5		50.0		119	50-200			

LCS (2153031-BS1)

Prepared: 12/30/21 Analyzed: 12/31/21

Diesel Range Organics (C10-C28)	567	25.0	500		113	38-132			
Surrogate: n-Nonane	56.7		50.0		113	50-200			

Matrix Spike (2153031-MS1)

Source: E112102-02

Prepared: 12/30/21 Analyzed: 12/31/21

Diesel Range Organics (C10-C28)	586	25.0	500	ND	117	38-132			
Surrogate: n-Nonane	61.1		50.0		122	50-200			

Matrix Spike Dup (2153031-MSD1)

Source: E112102-02

Prepared: 12/30/21 Analyzed: 12/31/21

Diesel Range Organics (C10-C28)	566	25.0	500	ND	113	38-132	3.40	20	
Surrogate: n-Nonane	56.3		50.0		113	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2202001-BLK1)

Prepared: 01/03/22 Analyzed: 01/03/22

Chloride	ND	20.0
----------	----	------

LCS (2202001-BS1)

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	259	20.0	250	104	90-110
----------	-----	------	-----	-----	--------

Matrix Spike (2202001-MS1)

Source: E112100-03

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	1930	20.0	250	1600	133	80-120	M1
----------	------	------	-----	------	-----	--------	----

Matrix Spike Dup (2202001-MSD1)

Source: E112100-03

Prepared: 01/03/22 Analyzed: 01/04/22

Chloride	1850	20.0	250	1600	99.0	80-120	4.49	20
----------	------	------	-----	------	------	--------	------	----



QC Summary Data

Devon Energy - Carlsbad	Project Name:	C State 16 2H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/5/2022 1:01:47PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2202002-BLK1)

Prepared: 01/03/22 Analyzed: 01/03/22

Chloride	ND	20.0
----------	----	------

LCS (2202002-BS1)

Prepared: 01/03/22 Analyzed: 01/03/22

Chloride	253	20.0	250	101	90-110
----------	-----	------	-----	-----	--------

Matrix Spike (2202002-MS1)

Source: E112100-21

Prepared: 01/03/22 Analyzed: 01/03/22

Chloride	2870	20.0	250	2450	168	80-120	M1
----------	------	------	-----	------	-----	--------	----

Matrix Spike Dup (2202002-MSD1)

Source: E112100-21

Prepared: 01/03/22 Analyzed: 01/03/22

Chloride	3190	20.0	250	2450	297	80-120	10.6	20	M1
----------	------	------	-----	------	-----	--------	------	----	----

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

Devon Energy - Carlsbad	Project Name:	C State 16 2H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/05/22 13:01

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- 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.



Chain of Custody

Page 1 of 1

Client: Devon
 Project: C State 16 2H
 Project Manager: Ashley Giovengo
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM 88220
 Phone: 505-382-1211
 Email: ashley.giovengo@wescominc.com
 Report due by:

Bill To
 Attention: Jim Raley
 Address: 5315 Burna Vista Dr
 City, State, Zip: Carlsbad NM 88220
 Phone: 575-689-7597
 Email: jim.raley@devn.com

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E112100</u>	<u>01058-0007</u>				<u>X</u>		
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
<u>X</u>							
Remarks							
<u>on ice</u>							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
302	12-22-21	Soil	1 Jar	BG01-0'	1
304				BG01-1'	2
1012				CONF01-0'	3
1017				CONF02-0'	4
1032				CONF03-0'	5
1038				CONF04-0'	6
1045				CONF05-0'	7
1050				CONF06-0'	8
1105				CONF07-0'	9
1111				CONF08-0'	10

Additional Instructions: Please CC Shan.hartester@wescominc.com Cole.burton@wescominc.com
Jim.raley@devn.com

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: Cole Burton

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 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>12/29/21</u>	<u>10:50</u>	<u>[Signature]</u>	<u>12-29-21</u>	<u>10:50</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>12-29-21</u>	<u>16:30</u>	<u>Caitlyn Christen</u>	<u>12/30/21</u>	<u>10:30</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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.



Chain of Custody

Page 2 of 2

Client: Devon
 Project: C State 16 2H
 Project Manager: Ashley Giovengo
 Address: 1224 Standpipe Rd
 City, State, Zip: Carlsbad NM 88220
 Phone: 505-382-1211
 Email: ashley.giovengo@wccs.com
 Report due by:

Bill To
 Attention: Jim Raley
 Address: 5315 Buena Vista Dr.
 City, State, Zip: Carlsbad NM 88220
 Phone: 575-689-7597
 Email: jim.raley@devn.com

Lab Use Only										TAT				EPA Program	
Lab WO#		Job Number		1D	2D	3D	Standard		CWA	SDWA					
E12100		01058-0007					X								
Analysis and Method										RCRA					
DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BDOC NM	BDOC TX	State						
									NM	CO					
									X						
									UT	AZ					
									TX						
Remarks										on ice					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
115	12-22-21	Soil	1 Jar	CONF09-0'	11
131				CONF10-0'	12
1136				CONF11-0'	13
1140				CONF12-0'	14
1159				CONF13-.5'	15
1203				CONF14-.5'	16
1207				CONF15-0'	17
1222				CONF16-0'	18
1227				CONF17-0'	19
1232				CONF18-wall 0'	20

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: Cole Burton

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 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/29/21	10:52		12-29-21	10:50
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12-29-21	16:30		12/30/21	10:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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.



Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E 112100	01058-0007				X		
Analysis and Method							RCRA

Remarks

Additional Instructions:

Relinquished by: (Signature) <i>[Signature]</i>			Date 12/29/21			Time 10:52			Received by: (Signature) <i>[Signature]</i>			Date 12-29-21			Time 10:50			Packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.		
Relinquished by: (Signature) <i>[Signature]</i>			Date 12-29-21			Time 16:30			Received by: (Signature) <i>[Signature]</i>			Date 12/30/21			Time 10:30			Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N		
Relinquished by: (Signature)			Date			Time			Received by: (Signature)			Date			Time			T1 _____ T2 _____ T3 _____		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other									AVG Temp °C <u>4</u>											

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 Analytical Laboratory

Printed: 12/30/2021 10:53:33AM

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:	Devon Energy - Carlsbad	Date Received:	12/30/21 10:30	Work Order ID:	E112100
Phone:	(505) 382-1211	Date Logged In:	12/29/21 15:03	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	01/05/22 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Fed ExComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 filtration 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.

ATTACHMENT F

48-Hour Confirmation Sample Notification Email



Energizing America
wescominc.com | info@wescominc.com | 218-724-1322

C State 16-2H Incident ID: nAPP2134057483



Ashley Giovengo <ashley.giovengo@wescominc.com>

48-Hour Confirmation Sample Notice - nAPP2134057483

1 message

Ashley Giovengo <ashley.giovengo@wescominc.com>

Mon, Dec 20, 2021 at 9:50 PM

To: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.hamlet@state.nm.us>, "Venegas, Victoria, EMNRD" <Victoria.venegas@state.nm.us>
Cc: Shar Harvester <shar.harvester@wescominc.com>, Joey Croce <joe.croce@wescominc.com>, Cody York <cody.york@wescominc.com>, Cole Burton <cole.burton@wescominc.com>, Daniel Davis <daniel.davis@wescominc.com>, "Raley, Jim" <Jim.Raley@dmv.com>

Hello All,

We intend to take confirmation samples at the C 17 State #002H - nAPP2134057483 starting on (12/23).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian

O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com*"I am in charge of my own safety."*

Minnesota | North Dakota | New Mexico | Wisconsin

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 82991

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 82991
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. OCD was able to correct site information in system.	3/4/2022