

Volume calculator

There was no volume calculator prepared when the spill occurred.



209 W. McKay Street
Carlsbad, New Mexico 88220
Tel. 432-701-2159
www.ntgenvironmental.com

April 5, 2024

Ashley Maxwell
Environmental Specialist
Oil Conservation Division, District 3
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Site Assessment and Sampling Work Plan
Trionyx Containment and Recycling Facility
Devon Energy Production Company
Unit P-02-25S-31E
Site Coordinates: 32.153988, -103.740529
Eddy County, New Mexico
Incident ID: nAB1534338732

1. Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Assessment and Sampling Work Plan for submittal to the New Mexico Oil Conservation Division (NMCOD) District 3 Office in Aztec, New Mexico to document site assessment and sample analysis results for the Trionyx Containment and Recycling Facility (Site). The Site is located in Unit Letter P, Section 02, of Township 25 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.153988° N latitude and 103.740529° W longitude. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

2. Background

Based on the Release Notification C-141 Form, the release occurred on November 14th, 2015, when the nipple leading into the bulkhead fitting on the caustic tank failed and spilled into the containment and onto the pad. Approximately 50 barrels (bbls) of sodium hydroxide were released, of which 47.6 bbls were recovered for a net loss of 2.4 bbls of sodium hydroxide. Upon discovery a vac-truck was mobilized to recover all standing fluids in the containment, contractors shoveled dirt onto the pad spill area and removed impacted soils, and the area was secured. Afterwards, the site was excavated with the impacted soil transported offsite to an approved disposal facility. The release area is shown in Figure 3.

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3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source (C-03830) within a ½-mile radius of the Site. The well (C-03830) was drilled in 2015 to 450 feet below ground surface (ft bgs) with groundwater first encountered at 300 ft bgs. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Attachment A.

NTGE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	300

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release (>4 Feet)	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Notes:
 --- = not defined

4. Liner Inspection and Initial Soil Delineation Assessment

On February 8th, 2024, NTGE conducted site assessment activities to assess the integrity and state of the secondary containment liner. Upon inspection it was noted that the liner was free of any standing fluids, however a total of six (6) breaches were found in the liner. A part of the southern wall of the secondary containment was missing. Devon personnel expressed that the facility is currently active but in planned stages of decommissioning and eventually the whole secondary containment liner will be removed from the facility allowing for full access and complete delineation and or remediation beneath liner.

On February 27th, 2024, NTGE returned to a site to assess the extent of the impacts at the Site in the breached and surrounding areas of the secondary containment liner. Six (6) sample points (S-1 through S-6) were installed within a secondary containment to address every breach in the liner, as well as four (4) sample points (S-7 through S-10) installed around the secondary containment area to characterize the impacts of the spill. Two (2) background sample points (BG-1 and BG-2)
 NTGE Project No.: 248254



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were installed outside of the area of concern to provide natural background levels of pH. Soil samples were collected in 0.5-to-1 ft intervals from depths ranging from 0 to 3.5 ft bgs with a geotechnical hand auger. The samples were analyzed for pH by Cardinal Laboratories in Hobbs, New Mexico.

The analytical results indicated that the pH levels of all samples collected in the area of concern was close to the pH of natural background levels. Analytical results are included in Table 1, while soil boring locations are shown in Figure 3.

5. Closure Request and NMOCD Denial

Based on the assessment, Devon requested closure of the site in a report dated March 5, 2024. In an email dated March 7, 2024, the NMOCD denied closure of the site requesting additional sampling analysis (i.e. pH, Cation/Anions and Na) and a sampling work plan be submitted by June 7, 2024.

6. Proposed Work Plan and Sampling

As requested in the email dated March 7, 2024, Devon proposes to collect confirmation soil samples in the areas outside the liner to a depth of four (4) ft bgs (around S-7, S-8, S-9 and S-10) based on a five (5) point composite sampling no greater than 200 square feet to comply with NMAC 19.15.23.12 and 19.15.29.13. Discrete soil samples will be collected with a hand auger from the sidewalls and bottom of the excavation if any staining is observed. All confirmation samples will be submitted to a certified lab for analysis of pH, Cations/Anions and to include Sodium (Na).

Since the facility is still active and because of liner integrity issues, the six (6) areas of the breached liner (S-1 through S-6) will be sampled with a hand auger to a maximum depth of four (4) ft bgs. Soil samples will be collected at half (0.5) ft to one (1.0) ft depths and submitted to an approved lab for analysis of pH, Cations/Anions to include Sodium (Na). The auger will be decontaminated between sampling events with deionized water and Alconox solution to prevent cross contamination. Once decommissioning of the site is completed, Devon will complete delineation/remediation (if needed) of the six (6) breached areas within the liner to comply with NMAC 19.15.23.12 and 19.15.29.13. See Figure 4 for proposed sampling location. The NMOCD will be notified within two (2) business days prior to Devon collecting samples at the site.

In addition to the above sampling, Devon will collect background samples from the site and submit those samples for analysis of pH, Cations/Anions including Na in order to compare the results collected from the confirmation sampling and develop a remediation plan, if any. Once the data is collected, Devon will submit the findings to the NMOCD within 90 days of acceptance of this workplan by the NMOCD. If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,

NTG Environmental

Ethan Sessums

NTGE Project No.: 248254



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April 5, 2024
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Project Manager

Attachments:

- Sampling Notifications
- Initial C-141
- Tables
- Figures
- Site Characterization Documentation
- Photographic Log
- Confirmation Sampling Notifications
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 248254



SAMPLING NOTIFICATIONS

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

QUESTIONS

Action 311126

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 311126
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1534338732
Incident Name	NAB1534338732 TRIONYX CONTAINMENT AND RECYLING FACILITY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAB1526137120] Trionyx Containment and Recyling Facility

Location of Release Source	
Site Name	TRIONYX CONTAINMENT AND RECYLING FACILITY
Date Release Discovered	11/14/2015
Surface Owner	State

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	11,150
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	02/08/2024
Time liner inspection will commence	10:00 AM
Please provide any information necessary for observers to liner inspection	Ethan Sessums Project Manager NTG Environmental New Mexico 209 W McKay St, Carlsbad, NM 88220 M: 254-266-5456 W: 432-701-2159 Email: esessums@ntglobal.com
Please provide any information necessary for navigation to liner inspection site	Facility: Trionyx Containment and Recyling Facility Coordinates: 32.153988, -103.740529

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

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CONDITIONS

Action 311126

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 311126
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	2/5/2024

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
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 811 S. First St., Artesia, NM 88210
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Santa Fe, NM 87505

QUESTIONS

Action 316587

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 316587
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1534338732
Incident Name	NAB1534338732 TRIONYX CONTAINMENT AND RECYLING FACILITY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAB1526137120] Trionyx Containment and Recyling Facility

Location of Release Source	
Site Name	TRIONYX CONTAINMENT AND RECYLING FACILITY
Date Release Discovered	11/14/2015
Surface Owner	State

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	11,150
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	02/27/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Dmitry Nikanorov Project Scientist W: (575) 266-3562 P: (917) 497-6890 Dnikanorov@ntglobal.com
Please provide any information necessary for navigation to liner inspection site	Facility: Trionyx Containment and Recyling Facility Coordinates: 32.153988, -103.740529

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 1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 316587

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 316587
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	2/22/2024

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 1625 N. French Dr., Hobbs, NM 88240
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS
 Action 316588

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 316588
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1534338732
Incident Name	NAB1534338732 TRIONYX CONTAINMENT AND RECYLING FACILITY @ 0
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAB1526137120] Trionyx Containment and Recyling Facility

Location of Release Source	
Site Name	TRIONYX CONTAINMENT AND RECYLING FACILITY
Date Release Discovered	11/14/2015
Surface Owner	State

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Dmitry Nikanorov Project Scientist W: (575) 266-3562 P: (917) 497-6890 Dnikanorov@ntglobal.com
Please provide any information necessary for navigation to sampling site	Facility: Trionyx Containment and Recyling Facility Coordinates: 32.153988, -103.740529

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

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Santa Fe, NM 87505

CONDITIONS
 Action 316588

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 316588
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/22/2024

INITIAL C-141

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

DEC 03 2015

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

FAB1526137120
DAB1534338732

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Devon Energy Production Co LP (6137)	Contact: Jeff Heath, Asst. Completions Foreman
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575-513-2274
Facility Name: Trionyx treated frac pond	Facility Type: frac pond location
Surface Owner: State	Mineral Owner: State
API No. NA	

LOCATION OF RELEASE

Unit Letter P	Section 2	Township 25S	Range 31E	Feet from the 725	North/South Line South	Feet from the 122	East/West Line East	County Lea
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Latitude: 32.153988 Longitude: -103.740529

NATURE OF RELEASE

Type of Release: Sodium Hydroxide (Other)	Volume of Release: 2100 gal / 50 bbls	Volume Recovered: 2000 gal / 47.6 bbls
Source of Release: Bulkhead nipple	Date and Hour of Occurrence: 11/14/15, 5:30 PM	Date and Hour of Discovery: 11/14/15, 5:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Kelly Jones	
By Whom? Jeff Heath, Asst. Completions Foreman	Date and Hour: 11/16/15, 7:13 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* NA

Describe Cause of Problem and Remedial Action Taken.*

The nipple leading into the bulkhead fitting on the caustic tank used for treating water on the Trionyx Frac Pond location failed causing a spill of approximately 50 barrels (2100 gals) of sodium hydroxide. Operations ceased temporarily until the spill was cleaned up and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.*

Approximately 2000 gallons leaked into the secondary containment around the caustic tank and was all recovered by a vacuum truck. Approximately 100 gallons leaked on to the location pad, but did not leave the pad. Contractors shoveled dirt on the pad spill, mixed it, picked it up, and put in a roll-off containment for solids to be disposed of at a proper disposal site. Devon will be submitting a work plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Denise Menoud	OIL CONSERVATION DIVISION	
Printed Name: Denise Menoud	Signed By: <i>Mike Beaudin</i> Approved by Environmental Specialist:	
Title: Field Admin Support	Approval Date: 12/1/15	Expiration Date: N/A
E-mail Address: Denise.Menoud@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> Attached <input type="checkbox"/>	
Date: 12/2/2015 Phone: 575-746-5544	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

ATER THAN: 11/5/16

2RP-3431

Bratcher, Mike, EMNRD

From: Menoud, Denise <Denise.Menoud@dvn.com>
Sent: Thursday, December 03, 2015 11:14 AM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD
Cc: Menoud, Denise
Subject: C-141 Trionyx spill 11/15/15
Attachments: C-141 Trionyx 11_14_15 spill with map and pics.pdf

Please see attached C-141 on a Trionys spill that occurred on 11/14/15, including a map and pics.

Thank you.

Denise Menoud

Admin Field Support 4 / Completions
Devon Energy Production Co. LP/Artesia NM
Denise.Menoud@dvn.com
575-746-5544

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

SITE CHARACTERIZATION INFORMATION

NMOCD Closure Criteria

Triony Containment and Recycling Facility

Site Information (19.15.29.11.A (2,3, & 4) NMAC)		Source/Notes
Depth to Groundwater (ft bgs)	300	Office of the State Engineer (OSE)
Horizontal Distance from All Water Sources Within 0.5 mile (ft)	N/A	National Wetlands Inventory (NWS)
Horizontal Distance to Nearest Significant Watercourse (ft)	>2640 ft	National Wetlands Inventory (NWS)

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater (ft)		Closure Criteria (mg/kg)				
		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50		600	100	--	50	10
51 - 100		10,000	2,500	1,000	50	10
>100	x	20,000	2,500	1,000	50	10
Surface Water		in yes, then				
<300 ft from a continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200 ft from a lakebed, sinkhole, or playa lake?	No					
Water Well or Water Source						
<500 ft from a spring or a private, domestic fresh waster well used by less that 5 households for domestic or livestock purposes?	No					
<1,000 ft from a fresh water well or spring?	No					
Human and Other Area						
<300 ft 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 ft from a wetland?	No					
Within an area overlying a subsurface mine?	No					
Within and unstable area?	No					
Within a 100 yr floodplain?	No					

* - numerical limit or background, whichever is greater

National Flood Hazard Layer FIRMMette



103°44'47"W 32°9'33"N



Eddy County
350120

AREA OF MINIMAL FLOOD HAZARD

Zone X

35015C1675D
6/4/2010
Not Printed

Legend

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

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
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 <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| OTHER FEATURES | | Levee, Dike, or Floodwall |
| | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.5 Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| 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 1/31/2024 at 12:44 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.

Released to Imaging: 4/11/2024 9:31:23 AM

1:6,000

103°44'10"W 32°9'2"N


Wetlands



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

January 31, 2024

Wetlands




- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

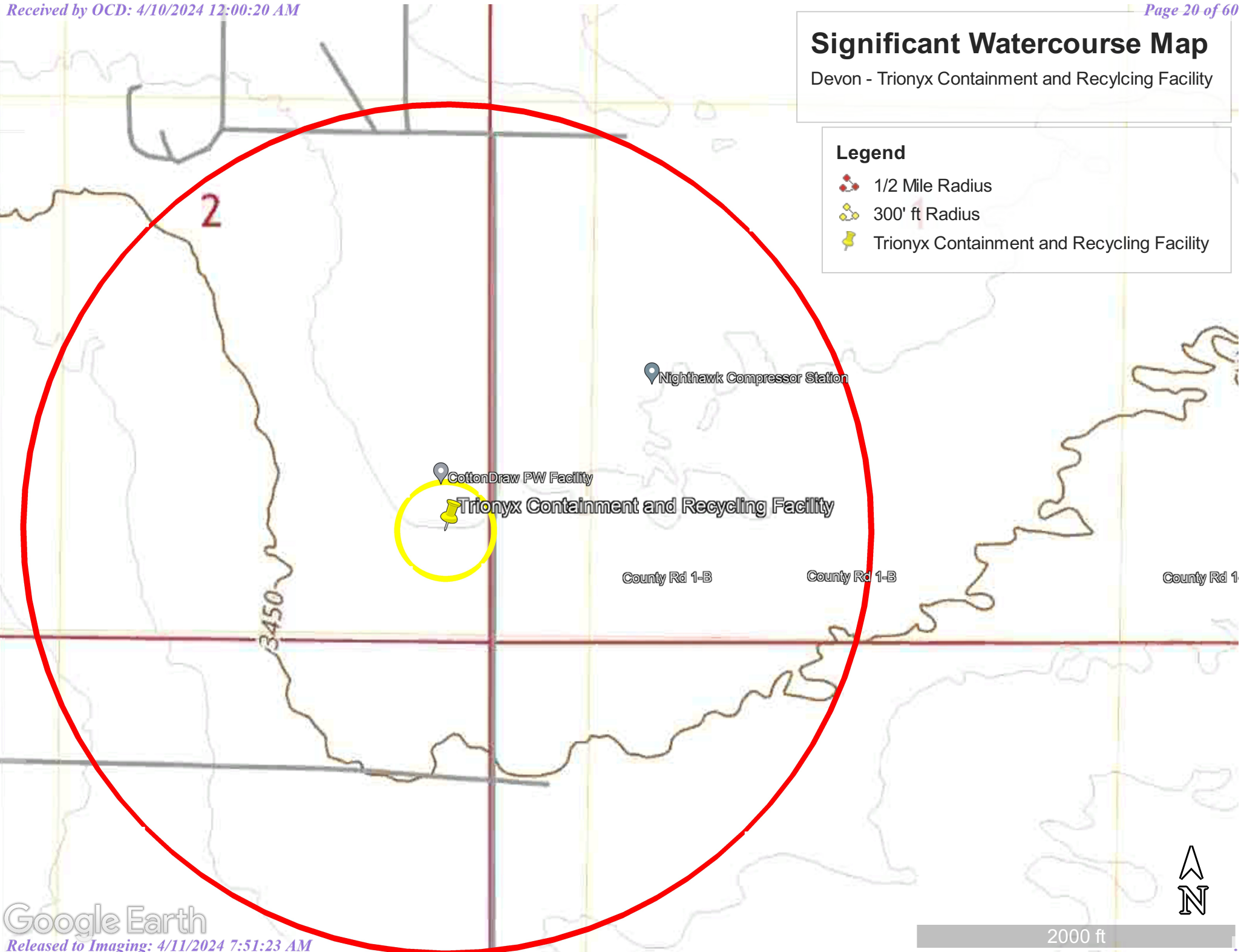
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Significant Watercourse Map

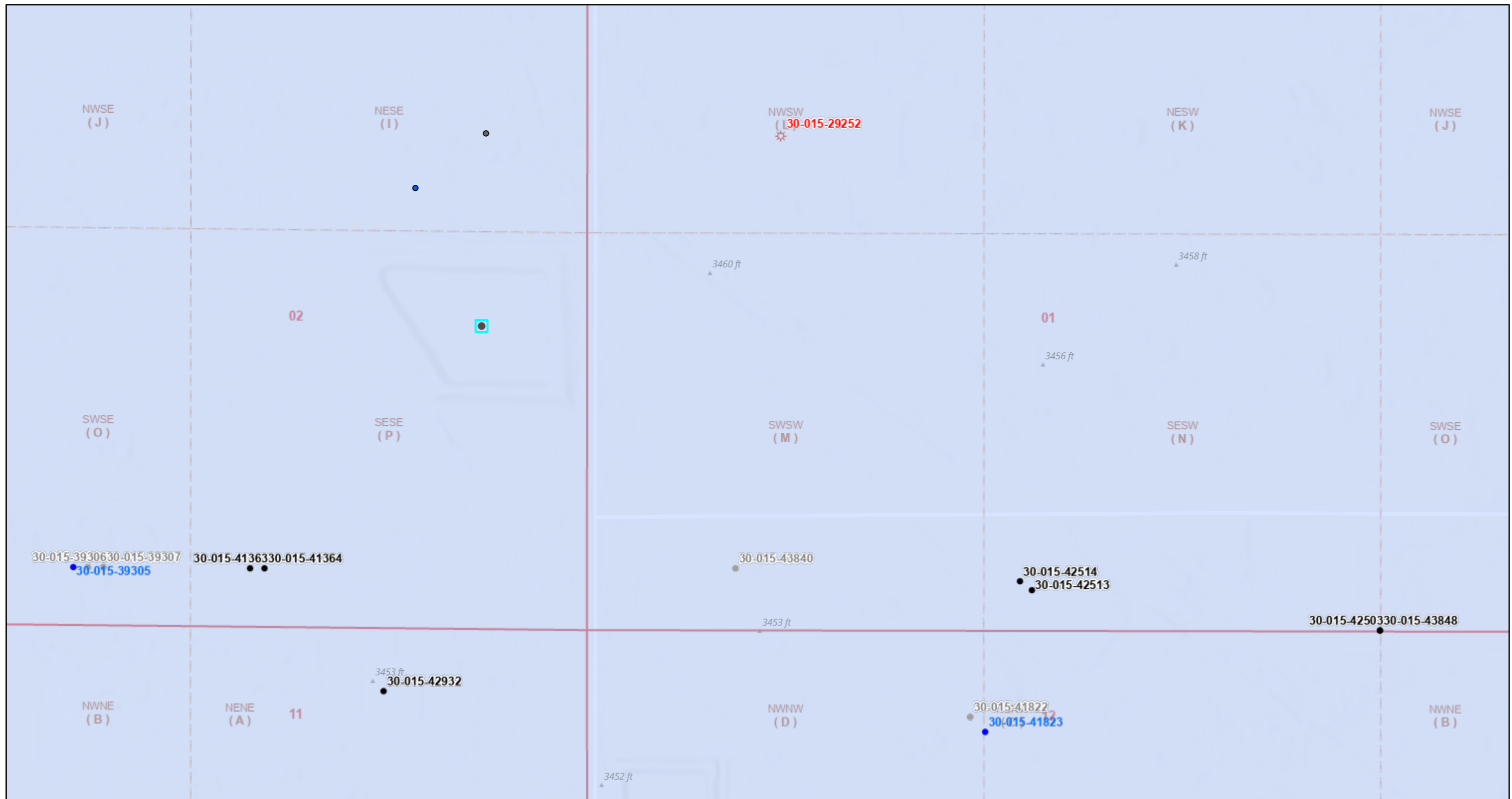
Devon - Trionyx Containment and Recycling Facility

Legend

-  1/2 Mile Radius
-  300' ft Radius
-  Trionyx Containment and Recycling Facility



OCD Well Locations



1/31/2024, 10:44:34 AM

OSE Water PODs Wells - Large Scale

● Oil, New

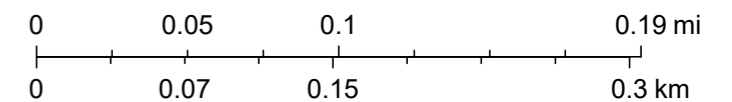
▭ PLSS First Division

● Active ⚙ Gas, Plugged Karst Occurrence Potential

● Unknown ● Oil, Active Low

● Oil, Cancelled ▭ PLSS Second Division

1:4,514



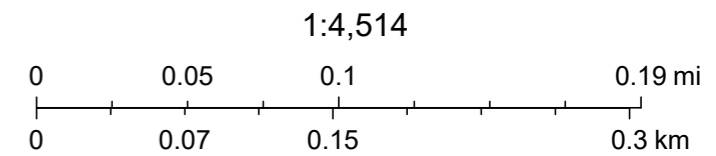
BLM, OCD, New Mexico Tech, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Oil Conservation

OSE POD Location Map



1/31/2024, 11:02:27 AM

- GIS WATERS PODs
- OSE District Boundary
 - Both Estates
 - Active
 - New Mexico State Trust Lands
 - Subsurface Estate



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) 1			OSE FILE NUMBER(S) C-3830		
	WELL OWNER NAME(S) ROCKHOUSE RANCH INC.			PHONE (OPTIONAL) 575-995-6920		
	WELL OWNER MAILING ADDRESS 1108 W PEARCE ST.			CITY CARLSBAD	STATE NM	ZIP 88220
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 09	SECONDS 22	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE 103	44	31	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE 1/4, NE 1/4, SE 1/4, SECTION 2, TOWNSHIP 25S, RANGE 31E						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1607		NAME OF LICENSED DRILLER LUIS A. (TONY) DURAN			NAME OF WELL DRILLING COMPANY DURAN DRILLING		
	DRILLING STARTED 1/28/15	DRILLING ENDED 2/02/15	DEPTH OF COMPLETED WELL (FT) 451	BORE HOLE DEPTH (FT) 450	DEPTH WATER FIRST ENCOUNTERED (FT) 300			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY: DRILLING MUD							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	220	12	STEEL	STEEL PERF	7	1/4	1/8
	220	450	12	STEEL PERF	STEEL	7	1/4	1/8

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	20	12	20 BGS 80 LBS CEMENT		MIXER
	20	450	12	22 YARDS 1/4" GRAVEL		

FOR OSE INTERNAL USE

FILE NUMBER C-3830 25S.31E.2.424	POD NUMBER 1	TRN NUMBER 560005 EXPL
--	------------------------	--

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

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0	1	1	TOPSOIL	<input type="radio"/> Y <input checked="" type="radio"/> N	
1	4	3	CALICHE	<input type="radio"/> Y <input checked="" type="radio"/> N	
4	16	12	SAND	<input type="radio"/> Y <input checked="" type="radio"/> N	
90	99	9	CLAY	<input type="radio"/> Y <input checked="" type="radio"/> N	
99	190	91	SAND	<input type="radio"/> Y <input checked="" type="radio"/> N	
190	250	60	BROWN CLAY	<input type="radio"/> Y <input checked="" type="radio"/> N	
250	265	15	SAND	<input type="radio"/> Y <input checked="" type="radio"/> N	
265	340	75	CLAY	<input type="radio"/> Y <input checked="" type="radio"/> N	
340	348	8	SAND	<input type="radio"/> Y <input checked="" type="radio"/> N	
348	378	30	GRAVEL	<input checked="" type="radio"/> Y <input type="radio"/> N	10
378	384	6	CALY	<input type="radio"/> Y <input checked="" type="radio"/> N	
384	448	64	SAND	<input checked="" type="radio"/> Y <input type="radio"/> N	5
448	450	2	RED BED	<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input checked="" type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 15	
<input type="radio"/> AIR LIFT <input checked="" type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					

5. TEST; RIG SUPERVISION

WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
 LUIS A. DURAN

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Luis A. Duran / LUIS A. DURAN 2-02-15
 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE

FILE NUMBER	C-3830	POD NUMBER	/	TRN NUMBER	560005
				EXPL	

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Trionyx Containment and Recycling Facility
Devon Energy Production Company
Eddy County, New Mexico

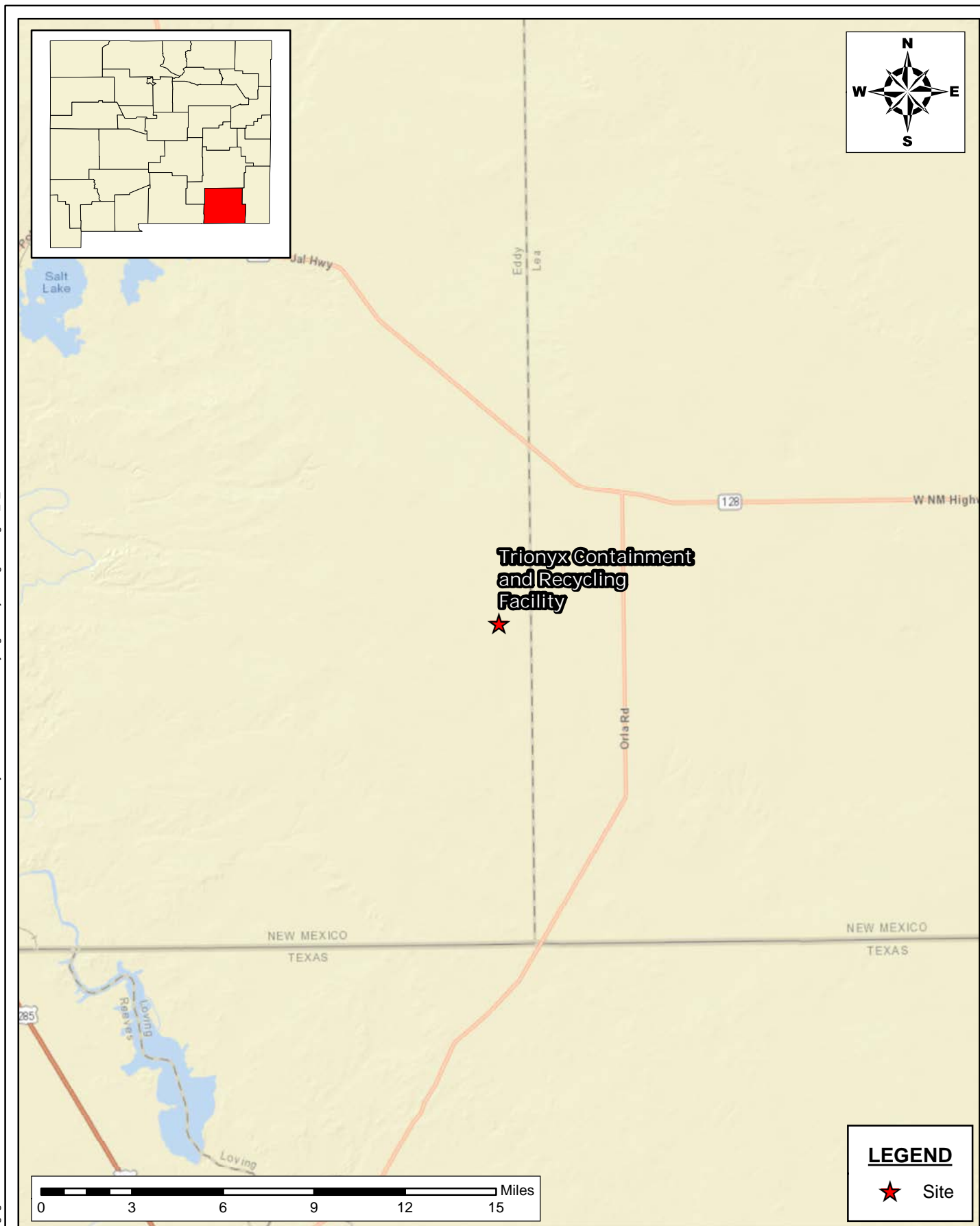
Sample ID	Sample Date	Depth (ft bgs)	pH	Temperature °C
Delineation Samples				
S-1	2/27/2024	0-0.5'	8.31	20.1
	2/27/2024	1-1.5'	8.4	20.4
	2/27/2024	2-2.5'	8.9	20.4
	2/27/2024	3-3.5'	8.67	20.3
S-2	2/27/2024	0-0.5'	8.71	20.2
	2/27/2024	1-1.5'	8.97	20.3
	2/27/2024	2-2.5'	9.14	20.1
	2/27/2024	3-3.5'	8.98	20.3
S-3	2/27/2024	0-0.5'	8.98	20.1
	2/27/2024	1-1.5'	9.07	20.1
	2/27/2024	2-2.5'	9.09	19.8
	2/27/2024	3-3.5'	8.99	19.7
S-4	2/27/2024	0-0.5'	9.15	19.7
	2/27/2024	1-1.5'	9.05	19.7
	2/27/2024	2-2.5'	9.14	19.7
	2/27/2024	3-3.5'	9.04	19.6
S-5	2/27/2024	0-0.5'	9.17	19.8
	2/27/2024	1-1.5'	9.13	19.8
	2/27/2024	2-2.5'	8.84	19.7
	2/27/2024	3-3.5'	9.07	19.6
S-6	2/27/2024	0-0.5'	8.94	21.4
	2/27/2024	1-1.5'	8.95	21.2
	2/27/2024	2-2.5'	8.91	21
	2/27/2024	3-3.5'	9.02	21
S-7	2/27/2024	0-0.5'	8.99	21
	2/27/2024	1-1.5'	9.08	21.1
	2/27/2024	2-2.5'	9.01	21.1
	2/27/2024	3-3.5'	9.19	21.4
S-8	2/27/2024	0-0.5'	9.15	21.6
	2/27/2024	1-1.5'	9.13	21.2
	2/27/2024	2-2.5'	8.74	21
	2/27/2024	3-3.5'	9.07	20.9
S-9	2/27/2024	0-0.5'	8.95	21.1
	2/27/2024	1-1.5'	8.83	21
	2/27/2024	2-2.5'	8.95	21.3
	2/27/2024	3-3.5'	8.92	21.1
S-10	2/27/2024	0-0.5'	9.04	21.5
	2/27/2024	1-1.5'	8.79	21.6
	2/27/2024	2-2.5'	8.82	21.1
	2/27/2024	3-3.5'	9	20.9
Background Samples				
BG-1	2/27/2024	0-0.5'	8.31	20.9
BG-2	2/27/2024	0-0.5'	8.14	20.9

Notes:

1. Bold indicates Analyte Detected

FIGURES

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\2024 PROJECTS\DEVON\RSC\248254 - Trionyx Containment and Recycling Facility\7 - Figures\Figure_1_SL.mxd



SITE LOCATION MAP
 CLOSURE REPORT
 DEVON ENERGY PRODUCTION COMPANY
 TRIONYX TREATED FRAC POND
 EDDY COUNTY, NEW MEXICO

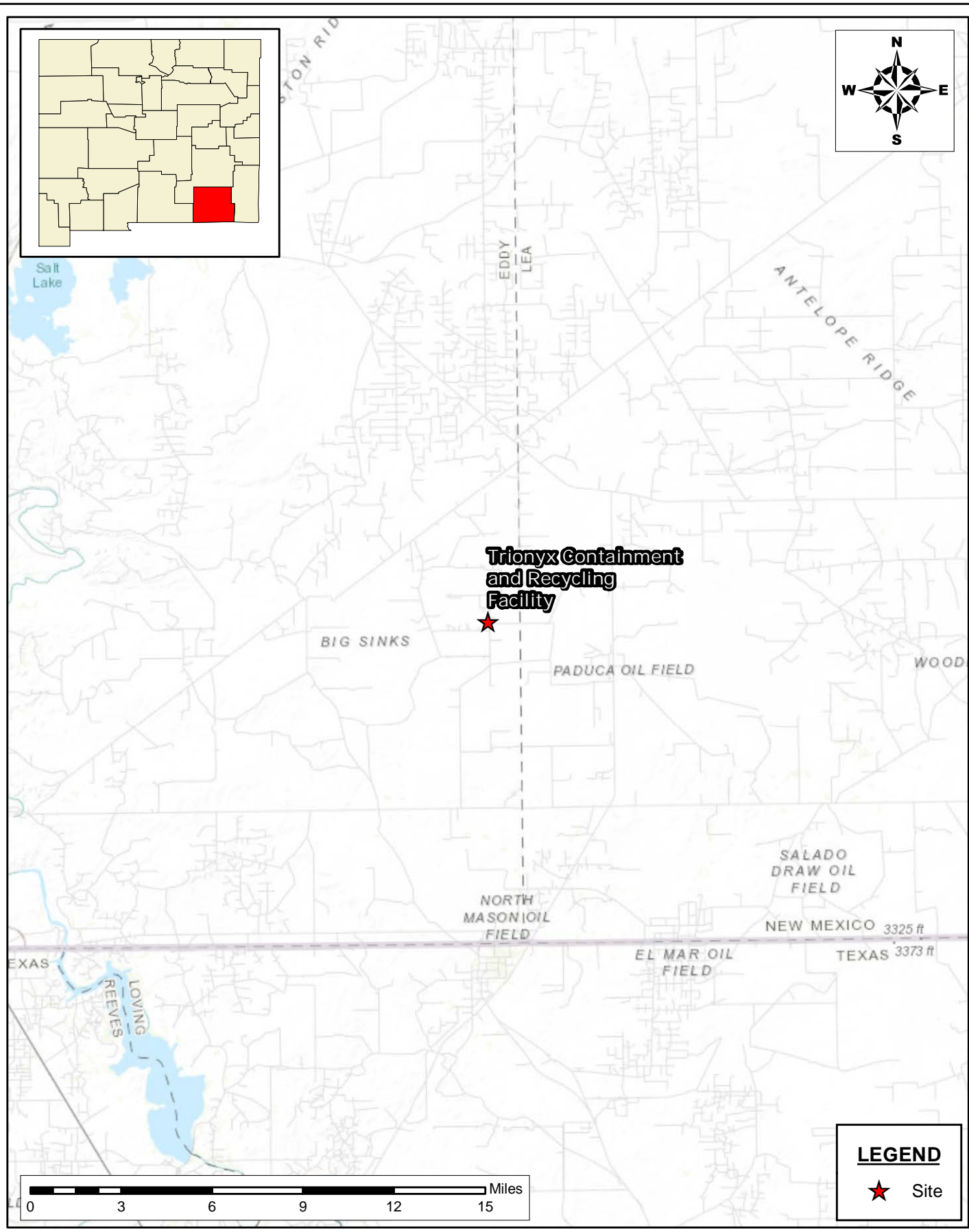
SCALE: As Shown Date: 1/31/2024 PROJECT #: 248254


New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenviroinmental.com

NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 1
 SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\2024 PROJECTS\DEVON\NRSC\248254 - Trionyx Containment and Recycling Facility7 - Figures\GIS\Figure_2_TM.mxd



LEGEND

★ Site

TOPOGRAPHIC MAP
 CLOSURE REPORT
 DEVON ENERGY PRODUCTION COMPANY
 TRIONYX TREATED FRAC POND
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 1/31/2024 PROJECT #: 248254

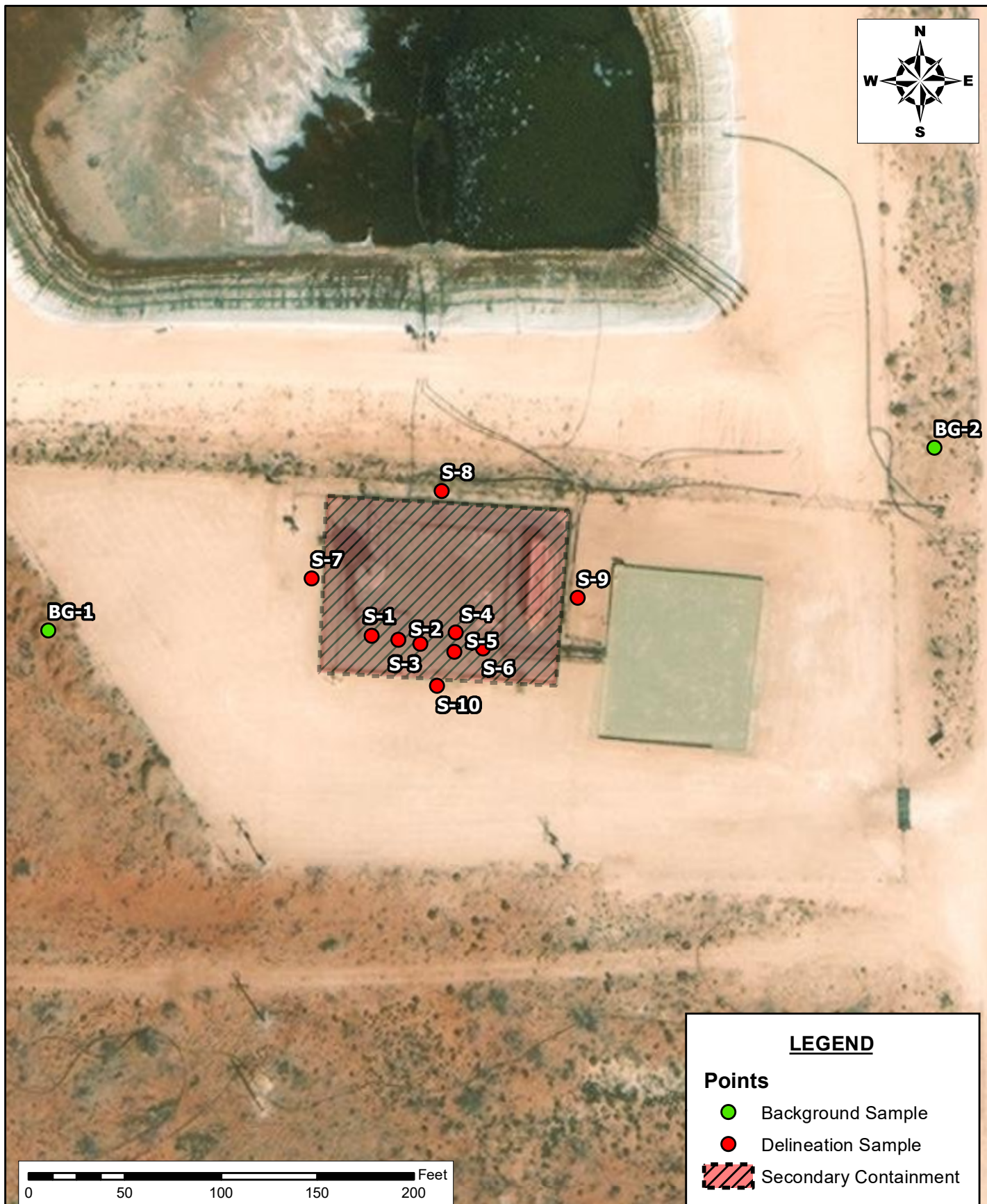
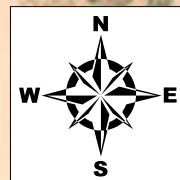
 **NTG**
 Environmental

New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenviromental.com

NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 2
 SHEET NUMBER:
1 of 1

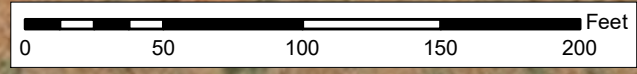
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LEGEND

Points

- Background Sample
- Delineation Sample
- Secondary Containment



SITE ASSESSMENT MAP
CLOSURE REPORT
 DEVON ENERGY PRODUCITON COMPANY
 TRIONYX TREATED FRAC POND
 EDDY COUNTY, NEW MEXICO

NTG
ENVIRONMENTAL
 New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntgenviroinmental.com

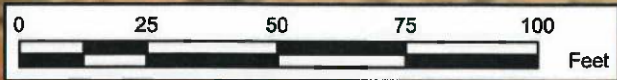
NOTES:
 1. Base Image: ESRI Maps & Data 2013
 2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 3
 SHEET NUMBER:
1 of 1



LEGEND

- Proposed Delineation Samples
- Secondary Containment
- Sample Area



Document Path: C:\Users\ntgegis\Desktop\Geodatabase\Figure_4_ProposedDelineationSampleMap_04-04-24.aprx

PROPOSED DELINEATION SAMPLE MAP
DEVON ENERGY PRODUCTION COMPANY
 TRIONYX TREATED FRAC POND
 EDDY COUNTY, NEW MEXICO

NTG
 New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
 T - 281.872.9300
 F - 281.872.4521
 Web: www.ntglobal.com

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 4
 SHEET NUMBER:
1 of 1

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Devon Energy Production Company

Trionyx Containment and Recycling Facility

Photograph No. 1

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



Photograph No. 2

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



Photograph No. 3

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



PHOTOGRAPHIC LOG

Devon Energy Production Company

Trionyx Containment and Recycling Facility

Photograph No. 4

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



Photograph No. 5

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



Photograph No. 6

Facility: Trionyx Containment and Recycling Facility

County: Eddy County, New Mexico

Description:
Area of Secondary Lined Containment.



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

March 01, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: TRIONYX RECYCLING AND CONTAINMENT FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 02/27/24 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 1 0-0.5 (H240947-01)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.31	0.100	02/29/2024		7.02	100	7.00	0.360		
Temperature °C	20.1		02/29/2024					1.48		

Sample ID: S - 1 1-1.5 (H240947-02)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.40	0.100	02/29/2024		7.02	100	7.00	0.360		
Temperature °C	20.4		02/29/2024					1.48		

Sample ID: S - 1 2-2.5 (H240947-03)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.90	0.100	02/29/2024		7.02	100	7.00	0.360		
Temperature °C	20.4		02/29/2024					1.48		

Sample ID: S - 1 3-3.5 (H240947-04)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.67	0.100	02/29/2024		7.02	100	7.00	0.360		
Temperature °C	20.3		02/29/2024					1.48		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 2 0-0.5 (H240947-05)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.71	0.100	02/29/2024		7.02	100	7.00	0.360	
Temperature °C	20.2		02/29/2024					1.48	

Sample ID: S - 2 1-1.5 (H240947-06)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.97	0.100	02/29/2024		7.02	100	7.00	0.360	
Temperature °C	20.3		02/29/2024					1.48	

Sample ID: S - 2 2-2.5 (H240947-07)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.14	0.100	02/29/2024		7.02	100	7.00	0.360	
Temperature °C	20.1		02/29/2024					1.48	

Sample ID: S - 2 3-3.5 (H240947-08)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.98	0.100	02/29/2024		7.02	100	7.00	0.360	
Temperature °C	20.3		02/29/2024					1.48	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 3 0-0.5 (H240947-09)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.98	0.100	02/29/2024		7.02	100	7.00	0.360	
Temperature °C	20.1		02/29/2024					1.48	

Sample ID: S - 3 1-1.5 (H240947-10)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.07	0.100	02/29/2024		7.02	100	7.00	0.360	
Temperature °C	20.1		02/29/2024					1.48	

Sample ID: S - 3 2-2.5 (H240947-11)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.09	0.100	02/29/2024		7.01	100	7.00	0.110	
Temperature °C	19.8		02/29/2024					1.02	

Sample ID: S - 3 3-3.5 (H240947-12)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.99	0.100	02/29/2024		7.01	100	7.00	0.110	
Temperature °C	19.7		02/29/2024					1.02	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 4 0-0.5 (H240947-13)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.15	0.100	02/29/2024		7.01	100	7.00	0.110		
Temperature °C	19.7		02/29/2024					1.02		

Sample ID: S - 4 1-1.5 (H240947-14)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.05	0.100	02/29/2024		7.01	100	7.00	0.110		
Temperature °C	19.7		02/29/2024					1.02		

Sample ID: S - 4 2-2.5 (H240947-15)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.14	0.100	02/29/2024		7.01	100	7.00	0.110		
Temperature °C	19.7		02/29/2024					1.02		

Sample ID: S - 4 3-3.5 (H240947-16)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.04	0.100	02/29/2024		7.01	100	7.00	0.110		
Temperature °C	19.6		02/29/2024					1.02		

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 5 0-0.5 (H240947-17)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.17	0.100	02/29/2024		7.01	100	7.00	0.110	
Temperature °C	19.8		02/29/2024					1.02	

Sample ID: S - 5 1-1.5 (H240947-18)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.13	0.100	02/29/2024		7.01	100	7.00	0.110	
Temperature °C	19.8		02/29/2024					1.02	

Sample ID: S - 5 2-2.5 (H240947-19)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.84	0.100	02/29/2024		7.01	100	7.00	0.110	
Temperature °C	19.7		02/29/2024					1.02	

Sample ID: S - 5 3-3.5 (H240947-20)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.07	0.100	02/29/2024		7.01	100	7.00	0.110	
Temperature °C	19.6		02/29/2024					1.02	

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 6 0-0.5 (H240947-21)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.94	0.100	02/29/2024		7.07	101	7.00	1.44	
Temperature °C	21.4		02/29/2024					0.939	

Sample ID: S - 6 1-1.5 (H240947-22)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.95	0.100	02/29/2024		7.07	101	7.00	1.44	
Temperature °C	21.2		02/29/2024					0.939	

Sample ID: S - 6 2-2.5 (H240947-23)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.91	0.100	02/29/2024		7.07	101	7.00	1.44	
Temperature °C	21.0		02/29/2024					0.939	

Sample ID: S - 6 3-3.5 (H240947-24)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.02	0.100	02/29/2024		7.07	101	7.00	1.44	
Temperature °C	21.0		02/29/2024					0.939	

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 7 0-0.5 (H240947-25)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.99	0.100	02/29/2024		7.07	101	7.00	1.44		
Temperature °C	21.0		02/29/2024					0.939		

Sample ID: S - 7 1-1.5 (H240947-26)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.08	0.100	02/29/2024		7.07	101	7.00	1.44		
Temperature °C	21.1		02/29/2024					0.939		

Sample ID: S - 7 2-2.5 (H240947-27)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.01	0.100	02/29/2024		7.07	101	7.00	1.44		
Temperature °C	21.1		02/29/2024					0.939		

Sample ID: S - 7 3-3.5 (H240947-28)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.19	0.100	02/29/2024		7.07	101	7.00	1.44		
Temperature °C	21.4		02/29/2024					0.939		

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 8 0-0.5 (H240947-29)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.15	0.100	02/29/2024		7.07	101	7.00	1.44	
Temperature °C	21.6		02/29/2024					0.939	

Sample ID: S - 8 1-1.5 (H240947-30)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.13	0.100	02/29/2024		7.07	101	7.00	1.44	
Temperature °C	21.2		02/29/2024					0.939	

Sample ID: S - 8 2-2.5 (H240947-31)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	8.74	0.100	02/29/2024		7.06	101	7.00	1.36	
Temperature °C	21.0		02/29/2024					0.477	

Sample ID: S - 8 3-3.5 (H240947-32)

pH	pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*	9.07	0.100	02/29/2024		7.06	101	7.00	1.36	
Temperature °C	20.9		02/29/2024					0.477	

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 9 0-0.5 (H240947-33)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.95	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.1		02/29/2024					0.477		

Sample ID: S - 9 1-1.5 (H240947-34)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.83	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.0		02/29/2024					0.477		

Sample ID: S - 9 2-2.5 (H240947-35)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.95	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.3		02/29/2024					0.477		

Sample ID: S - 9 3-3.5 (H240947-36)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.92	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.1		02/29/2024					0.477		

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: S - 10 0-0.5 (H240947-37)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.04	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.5		02/29/2024					0.477		

Sample ID: S - 10 1-1.5 (H240947-38)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.79	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.6		02/29/2024					0.477		

Sample ID: S - 10 2-2.5 (H240947-39)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	8.82	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	21.1		02/29/2024					0.477		

Sample ID: S - 10 3-3.5 (H240947-40)

pH		pH Units		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH*	9.00	0.100	02/29/2024		7.06	101	7.00	1.36		
Temperature °C	20.9		02/29/2024					0.477		

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/27/2024	Sampling Date:	02/27/2024
Reported:	03/01/2024	Sampling Type:	Soil
Project Name:	TRIONYX RECYCLING AND CONTAINMEN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO., NM		

Sample ID: BG - 1 0-0.5 (H240947-41)

pH	pH Units		Analyzed By: CT							
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*		8.31	0.100	02/29/2024		7.06	101	7.00	0.958	
Temperature °C		20.9		02/29/2024					0.480	

Sample ID: BG - 2 0-0.5 (H240947-42)

pH	pH Units		Analyzed By: CT							
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH*		8.14	0.100	02/29/2024		7.06	101	7.00	0.958	
Temperature °C		20.9		02/29/2024					0.480	

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No:

1840947

Page 1 of 5

Project Manager: Ethan Sessums
 Company Name: NTG Environmental
 Address: 209 W Mckay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159
 Email: esessums@ntglobal.com

Bill To: (if different)
 Company Name: Wesley Matthews
 Address: Devon
 City, State ZIP:

Program: UST/PST PRP Rowfields IRC perfund
 State of Project: Level II Level III ST/UST RRP Level IV
 Reporting: Level II Level III ST/UST RRP Level IV
 Deliverables: EDD ADaPT Other:

Project Name: Trionyx Recycling and Containment Facility
 Project Number: Routine Rush
 Project Location: Lea Co., NM
 Sampler's Name: Dmitri Nikanarov
 Due Date: TAT starts the day received by the lab, if received by 4:30pm
 PO #: **SAMPLE RECEIPT**
 Temp Blank: Yes No
 Received Inact: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Total Containers: 42

Turn Around: Wet Ice: Yes No
 Thermometer ID: 140
 Correction Factor: 2.6
 Temperature Reading: 2.6
 Corrected Temperature: 2.6

Parameters: PH

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
S-1	0-0.5	2/27/2024		X		Grab/	1		None: NO DI Water: H ₂ O	
S-1	1-1.5	2/27/2024		X		Grab/	1		Cool: Cool MeOH: Me	
S-1	2-2.5	2/27/2024		X		Grab/	1		HCL: HC HNO ₃ : HN	
S-1	3-3.5	2/27/2024		X		Grab/	1		H ₂ SO ₄ : H ₂ NaOH: Na	
S-2	0-0.5	2/27/2024		X		Grab/	1		H ₃ PO ₄ : HP HOLD	
S-2	1-1.5	2/27/2024		X		Grab/	1		NaHSO ₄ : NABIS	
S-2	2-2.5	2/27/2024		X		Grab/	1		Na ₂ S ₂ O ₃ : NaSO ₃	
S-2	3-3.5	2/27/2024		X		Grab/	1		Zn Acetate+NaOH: Zn	
S-3	0-0.5	2/27/2024		X		Grab/	1		NaOH+Ascorbic Acid: SAPC	
S-3	1-1.5	2/27/2024		X		Grab/	1			

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time



Chain of Custody

Work Order No: H3440947

Page 3 of 5

Project Manager: Ethan Seessums
 Company Name: NTG Environmental
 Address: 209 W McKay St
 City, State ZIP: Carlsbad, NM 88220
 Phone: 432-701-2159
 Email: eseessums@ntgglobal.com

Bill to: (if different)
 Company Name: Wesley Matthews
 Address: Devon
 City, State ZIP:

Program: USTR/PST PRP Rowfields JRC Jperfund
 State of Project: Level II Level III PST/UST RRP Level IV
 Reporting Level: EDD ADAPT Other:

Project Name: Trionyx Recycling and Containment Facility
 Project Number: [Blank]
 Project Location: Lea Co, NM
 Sampler's Name: Dmitri Nikanarov
 PO #: [Blank]

Turn Around: Routine Rush
 Due Date: [Blank]
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes No
 Thermometer ID: [Blank]
 Correction Factor: [Blank]
 Temperature Reading: [Blank]
 Corrected Temperature: [Blank]

Sample Custody Seals: Yes No N/A
 Total Containers: 42

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
S-6	0-0.5	2/27/2024		X		Grab/	1		None: NO DI Water: H ₂ O	
S-6	1-1.5	2/27/2024		X		Grab/	1		Cool: Cool MeOH: Me	
S-6	2-2.5	2/27/2024		X		Grab/	1		HCL: HC HNO ₃ : HN	
S-6	3-3.5	2/27/2024		X		Grab/	1		H ₂ SO ₄ : H ₂ NaOH: Na	
S-7	0-0.5	2/27/2024		X		Grab/	1		H ₃ PO ₄ : HP NaHSO ₄ : NABIS	
S-7	1-1.5	2/27/2024		X		Grab/	1		Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn	
S-7	2-2.5	2/27/2024		X		Grab/	1		NaOH+Ascorbic Acid: SAPC	
S-7	3-3.5	2/27/2024		X		Grab/	1			
S-8	0-0.5	2/27/2024		X		Grab/	1			
S-8	1-1.5	2/27/2024		X		Grab/	1			

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[Signature]	[Signature]	2-27-24 12:40	[Signature]	[Signature]	



Chain of Custody

Work Order No: 1900947

Page 4 of 5

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Matthews
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	essesums@ntglobal.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> perfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Tionyx Recycling and Containment Facility	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:		Due Date:	
Project Location:	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitri Nikanarov	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
PO #:		Thermometer ID:	140
SAMPLE RECEIPT		Correction Factor:	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	8.6
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Corrected Temperature:	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>		
Total Containers:	42		

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
S-8	2-2.5	2/27/2024		X	Grab/	Comp	1				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
S-8	3-3.5	2/27/2024		X	Grab/	Comp	1					
S-9	0-0.5	2/27/2024		X	Grab/	Comp	1					
S-9	1-1.5	2/27/2024		X	Grab/	Comp	1					
S-9	2-2.5	2/27/2024		X	Grab/	Comp	1					
S-9	3-3.5	2/27/2024		X	Grab/	Comp	1					
S-10	0-0.5	2/27/2024		X	Grab/	Comp	1					
S-10	1-1.5	2/27/2024		X	Grab/	Comp	1					
S-10	2-2.5	2/27/2024		X	Grab/	Comp	1					
S-10	3-3.5	2/27/2024		X	Grab/	Comp	1					

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2-27-24 12:40			

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

QUESTIONS
 Action 331347

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1534338732
Incident Name	NAB1534338732 TRIONYX CONTAINMENT AND RECYLING FACILITY @ 0
Incident Type	Other
Incident Status	Remediation Plan Received
Incident Facility	[fAB1526137120] Trionyx Containment and Recyling Facility

Location of Release Source

Please answer all the questions in this group.

Site Name	TRIONYX CONTAINMENT AND RECYLING FACILITY
Date Release Discovered	11/14/2015
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Fitting Other (Specify) Released: 50 BBL Recovered: 48 BBL Lost: 2 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 331347

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 04/09/2024
--	--

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/27/2024
On what date will (or did) the final sampling or liner inspection occur	02/27/2024
On what date will (or was) the remediation complete(d)	02/27/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 331347

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmr.com Date: 04/09/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 331347

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

District I
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QUESTIONS, Page 6

Action 331347

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	316588
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 331347

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 331347
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved.	4/11/2024
amaxwell	Submit a report via the OCD permitting portal by June 7, 2024.	4/11/2024