



LT Environmental, Inc.

3300 North "A" Street
Building 1, Unit 103
Midland, Texas 79705
432.704.5178

April 30, 2020

Mr. Bradford Billings
New Mexico Oil Conservation Division
1220 South St. Francis Drive, #3
Santa Fe, New Mexico 87505

**RE: Closure Request
North Indian Flats 24 Federal #14
Remediation Permit Number 2RP-3341
Eddy County, New Mexico**

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the North Indian Flats 24 Federal #14 (Site) in Unit B, Section 24, Township 21 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to address impacts to soil after a produced water release at the Site.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing. Based on the site assessment activities and results of the soil sampling events, XTO is requesting no further action for this release.

RELEASE BACKGROUND

A produced water release was presumed to have occurred during plugging and abandonment activities in June 2015. The release was discovered on July 17, 2015 and affected approximately 1,350 square feet of the well pad. The release volume was estimated to be less than 5 barrels. The former operator reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on October 15, 2015 and was assigned Remediation Permit (RP) Number 2RP-3341 (Attachment 1). The Form C-141 indicates that a Remediation Action Plan was submitted to NMOCD on October 14, 2015, and that the plan was approved by NMOCD and amended by BLM on October 15, 2015. Remediation activities were scheduled to begin on October 16, 2015.



SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The closest permitted water well with depth to water data is United States Geological Survey (USGS) well 322850104014201, located approximately 4,115 feet northeast of the Site. The water well has a depth to groundwater of approximately 134 feet bgs, and a total depth of 160 feet bgs. Ground surface elevation at the water well location is 3,294 feet above mean sea level (AMSL), which is approximately 18 feet higher in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is an emergent wetland, located approximately 2,142 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a medium-potential karst area.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg;
- Total petroleum hydrocarbons (TPH): 2,500 mg/kg;
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg;
- Chloride: 20,000 mg/kg.

The well pad has been reclaimed; therefore, a closure criteria of 600 mg/kg chloride was applied to the top 4 feet of the subsurface per NMAC 19.15.29.13.D (1), for areas that will be reclaimed following remediation.

SITE ASSESSMENT, SOIL SAMPLING, AND EXCAVATION ACTIVITIES

The initial Form C-141 indicated that a Remediation Action Plan was submitted to NMOCD on October 14, 2015, and that the plan was approved by NMOCD and amended by BLM on October 15, 2015. A copy of the Remediation Action Plan was not available for LTE to review. However, historical documentation of site assessment, soil sampling, and excavation activities from September and October 2015 was available. Documentation includes site photos, release extent and sample location site maps, and soil sample laboratory analytical results. The historical documentation is provided in Attachment 2.



The Site was inspected in September 2015. Visible surface impacts were identified in two areas; the east impact area (EIA) near the center of the pad and the west impact area (WIA) on the west side of the pad. Preliminary or delineation soil samples were collected from 19 locations (#1 through #19) on the well pad, and 22 locations (#1-R through #22-R) on the lease road for field screening and laboratory analysis of chloride. Based on visible surface staining, field screening activities and laboratory analytical results at sample points #13 through #16, excavation of impacted soil was warranted in the EIA and WIA.

Excavation depth was determined based on field screening activities and laboratory analytical results for the vertical delineation samples collected at sample points #13 through #16. Excavation was completed in the WIA around soil samples #13 and #14, to a depth of 5 feet bgs. Excavation was completed in the EIA around soil samples #15 and #16, to a depth of 3 feet bgs. Upon completion of excavation activities, sidewall samples WIA W wall 2, WIA S wall, WIA E wall 3, and WIA E wall 2 were collected from the western excavation and sidewall samples EIA E wall, EIA N wall 2, EIA NE wall 2, EIA W wall 5, EIA SW wall, EIA S wall, and EIA SE wall were collected from the eastern excavation. The excavation soil samples were submitted for laboratory analysis of chloride.

ANALYTICAL RESULTS

Laboratory analytical results indicated that chloride concentrations were below 600 mg/kg in preliminary soil samples #1 through #12, #17 through #19, and #1-R through #22-R, and no excavation was warranted in these areas.

Field screening activities and laboratory analytical results for delineation soil samples collected from sample points #13 through #16 indicated that excavation was warranted in these areas. Excavation depth was determined based on field screening activities and laboratory analytical results for the delineation samples. Laboratory analytical results for the excavation sidewall samples, indicated that chloride concentrations were below 600 mg/kg, and no further remediation was required.

Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Impacted soil was excavated from the Site to address the June 2015 release of produced water at the Site. Excavation activities were completed in October 2015 shortly after the Remediation Action Plan was approved; therefore, site remediation is presumed to have been completed in accordance with the approved plan. Laboratory analytical results for the excavation soil samples indicated that chloride concentrations were below 600 mg/kg. Based on the laboratory analytical results, it appears that impacted soil was successfully removed during October 2015, and no



Billings, B.
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further remediation was required. LTE inspected the Site in April 2020, the excavations were backfilled, the well pad was reclaimed, and vegetation has been successfully established. Photographs from the Site visit are included in Attachment 4.

Natural attenuation and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for RP Number 2RP-3341. An updated NMOCD Form C-141 is included in Attachment 1.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads 'Aimee Cole'.

Aimee Cole
Project Environmental Scientist

A handwritten signature in black ink that reads 'Ashley L. Ager'.

Ashley L. Ager, P.G.
Senior Geologist

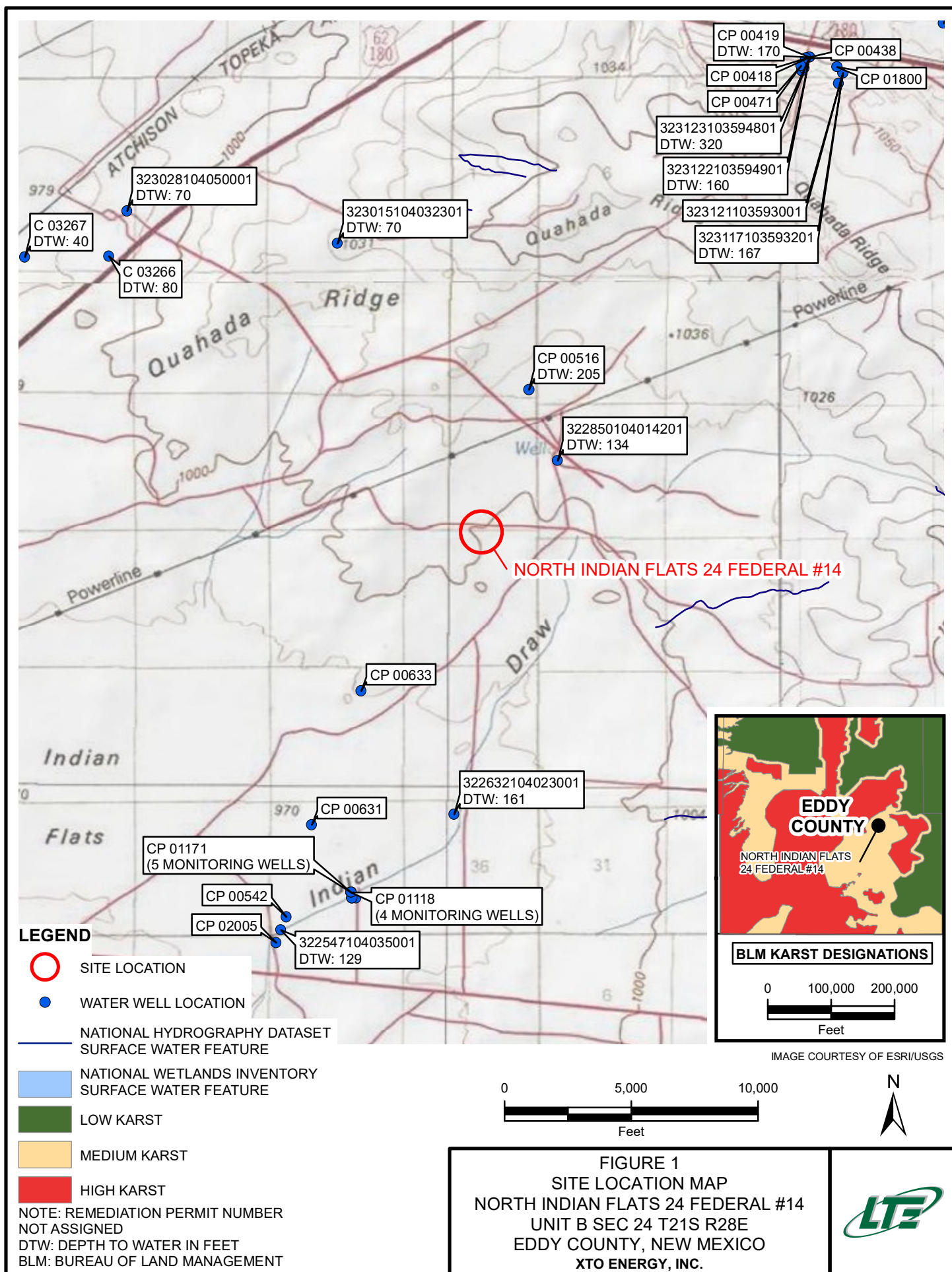
cc: Kyle Littrell, XTO
Bureau of Land Management
Mike Bratcher, NMOCD

Attachments:

Figure 1 Site Location Map
Table 1 Soil Analytical Results
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-3341)
Attachment 2 Historical Documentation
Attachment 3 Laboratory Analytical Reports
Attachment 4 Photographic Log

FIGURES





TABLES



TABLE 1
SOIL ANALYTICAL RESULTS
NORTH INDIAN FLATS 24 FEDERAL #14
REMEDIATION PERMIT NUMBER 2RP-3341
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
#1-S	Surface	09/24/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80.0
#2-S	Surface	09/24/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.0
#3-S	Surface	09/25/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#4-S	Surface	09/25/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#5-S	Surface	09/25/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.0
#6-S	Surface	09/25/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#7-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#8-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.0
#9-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#10-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#11-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.0
#12-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#13-3	3	10/13/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	608.0
#14-3	3	10/14/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	208.0
#15-1	1	09/24/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	128.0
#16-6	6	10/15/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	352.0
#17-S	Surface	09/24/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48.0
#18-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	208.0
#19-S	Surface	09/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#1-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#2-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#3-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.0
#4-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#5-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0

TABLE 1
SOIL ANALYTICAL RESULTS
NORTH INDIAN FLATS 24 FEDERAL #14
REMEDATION PERMIT NUMBER 2RP-3341
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
#6-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#7-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#8-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#9-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#10-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#11-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#12-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#13-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#14-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#15-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#16-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#17-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#18-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#19-R	Surface	09/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#20-R	Surface	10/02/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#21-R	Surface	10/02/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
#22-R	Surface	10/02/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
WIA W WALL 2		10/16/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400.0
WIA S WALL		10/16/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	224.0
WIA E WALL 3		10/16/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	368.0
WIA N WALL 2		10/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	176.0

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EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
EIA E WALL		10/16/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	144.0
EIA N WALL 2		10/19/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
EIA NE WALL 2		10/19/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	144.0
EIA W WALL 5		10/19/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.0
EIA SW WALL		10/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.0
EIA S WALL		10/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<16.0
EIA SE WALL		10/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	96.0

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 Aug

N/A - not analyzed

Greyed data represents samples that were excavated

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-3341)

ARTESIA DISTRICT

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

OCT 15 2015

Form C-141
Revised August 8, 2011

Submit a copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

nAB1529331964

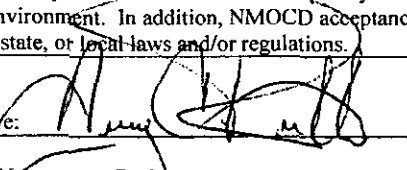
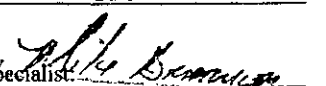
Name of Company: BOPCO, L.P. 240737	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 24 Federal #14	Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner: Unknown
API No. 30-015-39136	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	24	21S	28E	10	North	2230	East	Eddy

Latitude 32.472982° Longitude -104.038625°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	Unknown	Volume Recovered	Unknown
Source of Release	Suspect release during P&A activities	Date and Hour of Occurrence	6/2015, exact date and hour unknown	Date and Hour of Discovery	7/17/2015 10:50 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	N/A		
By Whom?	N/A	Date and Hour	N/A		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* Release may have occurred during P&A activities, caliche appears to have been scraped from location surface to berm leak and soak up standing fluids.					
Describe Area Affected and Cleanup Action Taken.* At time of discovery, leak seems to have been estimated at less than 5 bbls. Some spread has occurred since discovery due to rain. Leak currently affects 1,350 square feet of well pad. A Remediation Action Plan was submitted to NMOCD on 10-14-2015. Plan was approved by OCD and amended by BLM on 10-15-2015. Remediation activities will begin 10-16-2015.					
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: 		OIL CONSERVATION DIVISION			
Printed Name: Amy Ruth		Signed By:  Approved by Environmental Specialist:			
Title: Assistant Remediation Foreman		Approval Date: 10/20/15		Expiration Date: N/A	
E-mail Address: ACRuth@basspet.com		Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/> Attached <input type="checkbox"/>			
Date: 10/15/2015 Phone: 432-661-0571		SUBMIT REMEDIATION PROPOSAL NO			

* Attach Additional Sheets If Necessary

LATER THAN: 11/20/15

2RP-33A1

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

<u>Incident ID</u>	2RP-3341
<u>District RP</u>	
<u>Facility ID</u>	
<u>Application ID</u>	

Release Notification

Responsible Party

Responsible Party	XTO Energy	OGRID	5380
Contact Name	Kyle Littrell	Contact Telephone	432-221-7331
Contact email	Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)	2RP-3341
Contact mailing address	522 W. Mermod, Carlsbad, NM 88220		

Location of Release Source

Latitude 32.472982 Longitude -104.038625
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	North Indian Flats 24 Federal #14	Site Type: Exploration and Production
Date Release Discovered	07/17/2015	API# (if applicable) 30-015-39136

Unit Letter	Section	Township	Range	County
B	24	21S	28E	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) 0.0	Volume Recovered (bbls) 0.0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) < 5 bbls	Volume Recovered (bbls) 0.0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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: Release may have occurred in June 2015 during P&A activities. At time of discovery, leak was estimated at less than 5 bbls. Release affected 1,350 square feet of well pad.

State of New Mexico
Oil Conservation Division

Incident ID	
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? Release dvolume was less than 25 bbls.
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: N/A	
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>Kyle Littrell</u>	Title: <u>SH&E Supervisor</u>
Signature: _____	Date: <u>4/30/2020</u>
email: <u>Kyle Littrell@xtoenergy.com</u>	Telephone: <u>432-221-7331</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	2RP-3341
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?	>100 (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	2RP-3341
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: Kyle Littrell Title: SH&E Supervisor
Signature: _____ Date: 4-30-2020
email: Kyle_Littrell@xtoenergy.com Telephone: (432) 221-7331

OCD Only

Received by: Ramona Marcus Date: 05/11/2020

Incident ID	2RP-3341
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 OCD 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: Kyle Littrell Title: SH&E Supervisor
Signature: _____ Date: 4-30-2020
email: Kyle_Littrell@xtoenergy.com Telephone: (432) 221-7331

OCD Only

Received by: Ramona Marcus Date: 05/11/2020

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: Jocelyn Harimon Date: 09/22/2022
Printed Name: Jocelyn Harimon Title: Environmental Specialist

ATTACHMENT 2: HISTORICAL DOCUMENTATION

North Indian Flats 24 Federal #14 Final Reclamation

Unit Letter B, Sec 24, T21S, R28E

API 30-015-39136

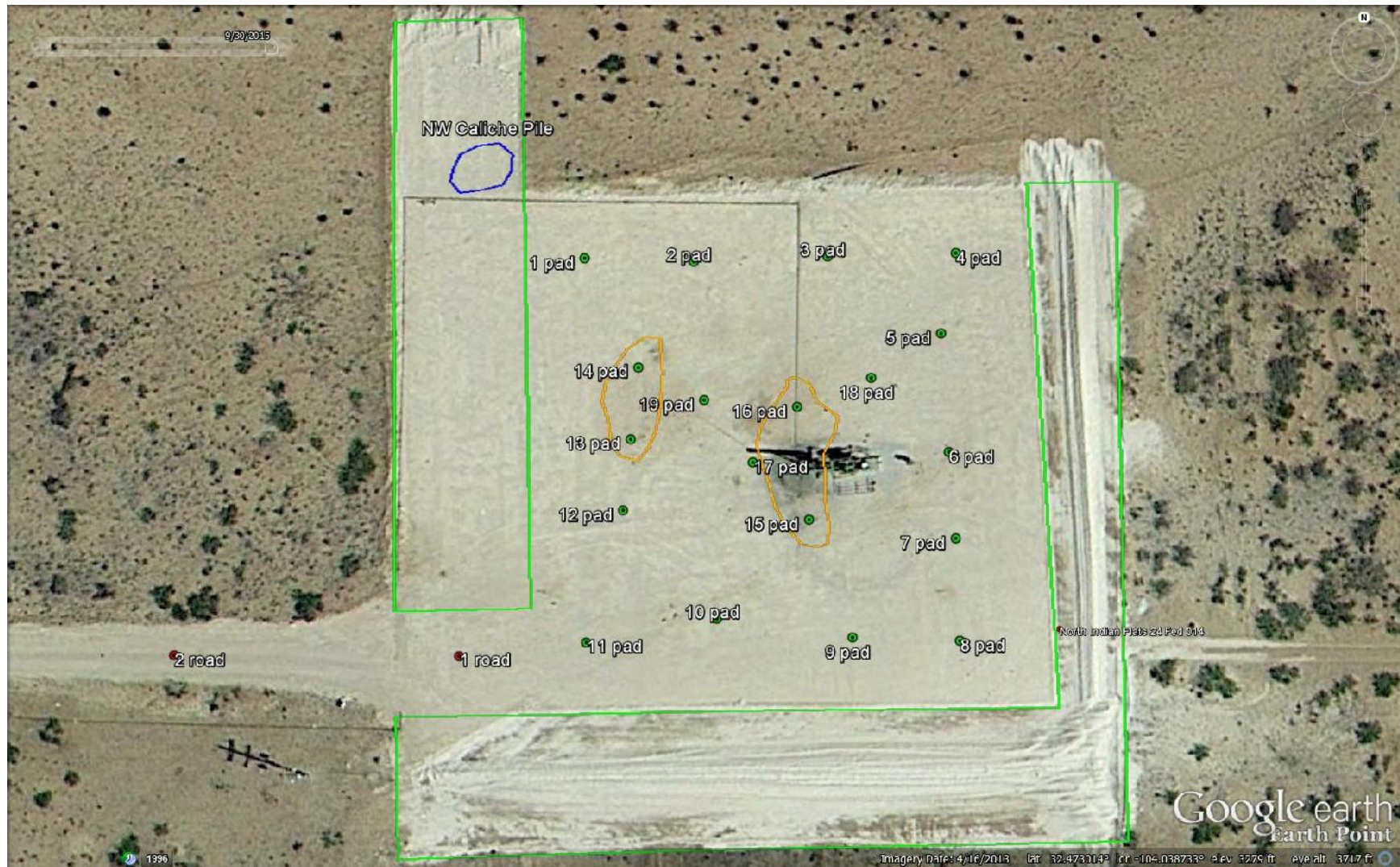


Green Areas: Previous interim reclamations

Yellow areas: Areas of visual chloride impact

Red dots: Road samples

North Indian Flats 24 Federal #14 Final Reclamation
Unit Letter B, Sec 24, T21S, R28E
API 30-015-39136



Green Areas: Previous interim reclamations

Yellow areas: Areas of visual chloride impact

Chloride Results on Former Well Pad

Sample Position	Depth	Pad Samples 9-24-2015 through 9-29-2015		Pad Samples 10-13-2015	
		Cl- Field	Cl- Lab	Cl- Field	Cl- Lab
#1 - S	Surface		80		
#2 - S	Surface		32		
#3 - S	Surface		<16		
#4 - S	Surface		<16		
#5 - S	Surface	<116	32		
#6 - S	Surface	<116	<16		
#7 - S	Surface		<16		
#8 - S	Surface		32		
#9 - S	Surface		<16		
#10 - S	Surface		<16		
#11 - S	Surface		32		
#12 - S	Surface		<16		
#13	Surface	984			
	1'	1136		<116	
	2'			1056	
	3'			504	submitting
	4'			188	
#14	Surface	16,656			
	1'	688		240	
	2'			2220	
	3'			240	submitting
	5'			360	
#15	Surface	1516			
	1'	164	128		
	2'			328	
	3'			164	
#16	Surface	12,360			
	1'			2624	
	2'			1760	
	3'			2936	
	6'			360	submitting
#17 - S	Surface	<116	48		
#18 - S	Surface		208		
#19 - S	Surface		<16		
Pile Comp		392	432		

Note:

Propose to remove 1' from area of #14 sample point. Excavate rest of entire area of #13 and #14 to 5 feet and blend. Will need to bury 2 large piles of boulders. Can bury here and at #16.

Propose to remove 1' from area.

Propose to remove 3' from area and bury boulders.

Will submit remaining samples to Cardinal Labs on 10-14-2015

Photo Documentation

North Indian Flats 24 Federal #14 Final Reclamation
Unit Letter B, Section 24, T21S, R28E



Area of impact near former well, facing northeast September 24, 2015



Boulder pile (needs burial) at center left photo, road leading away from former well pad, facing west/southwest September 24, 2015



Interim reclaim on left, NW caliche pile on upper center, and area of chloride impact located west of former well on center right side of photo, facing north/northwest September 24, 2015



Two-track at SE corner of former well pad, boulder pile (needs burial) at center right, facing east
September 30, 2015



Area of chloride impact located west of former well, sampling trenches #13 and #14, facing south
October 13, 2015



Area of chloride impact located surrounding former well, sampling trench #16, facing north/northeast
October 13, 2015



Area of chloride impact surrounding former well, sampling trench #15, facing southeast
October 13, 2015

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS





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

October 01, 2015

AMY RUTH

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: NIF 24 FEDERAL #14

Enclosed are the results of analyses for samples received by the laboratory on 09/30/15 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "C. Keene", with a stylized flourish at the end.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	09/30/2015	Sampling Date:	09/24/2015
Reported:	10/01/2015	Sampling Type:	Soil
Project Name:	NIF 24 FEDERAL #14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: #1-5 (H502584-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: #15-1' (H502584-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: #17-S (H502584-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: #2-S (H502584-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/30/2015	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received: 09/30/2015
 Reported: 10/01/2015
 Project Name: NIF 24 FEDERAL #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/25/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: #3-S (H502584-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: #4-S (H502584-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: PILE COMP (H502584-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: #5-S (H502584-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: #6-S (H502584-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

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Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	09/30/2015	Sampling Date:	09/29/2015
Reported:	10/01/2015	Sampling Type:	Soil
Project Name:	NIF 24 FEDERAL #14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: #7-S (H502584-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: #8-S (H502584-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: #9-S (H502584-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: #10-S (H502584-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: #11-S (H502584-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received: 09/30/2015
 Reported: 10/01/2015
 Project Name: NIF 24 FEDERAL #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/29/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: #12-S (H502584-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

Sample ID: #18-S (H502584-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/30/2015	ND	416	104	400	0.00	

Sample ID: #19-S (H502584-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/30/2015	ND	416	104	400	0.00		

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2, fo 2

Company Name: BOPCO, L.P.		P.O. #:							
Project Manager:		Company: BOPCO							
Address:		Attn: Amy Ruth							
City:	State:	Zip:	Address:						
Phone #:	Fax #:	City:	State:						
Project #: NIF 24 Federal #14		Zip:							
Project Location:		Phone #:							
Sampler Name: Amy Ruth		Fax #:							
<small>FOR LAB USE ONLY</small>									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
HSD2584									
11	# 8-S	G	1	✓			9-29-15		Chloride
12	# 9-S	G	1	✓					
13	# 10-S	G	1	✓					
14	# 11-S	G	1	✓					
15	# 12-S	G	1	✓					
16	# 13-S	G	1	✓					
17	# 14-S	G	1	✓					

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Relinquished By:	Date:	Received By:	Date:
Relinquished By:	Date:	Received By:	Date:

Relinquished By: _____ **Date:** 9-30-15
Delivered By: (Circle One) **Time:** 08:45
Sample - UPS - Bus - Other: **21.2c**
Sample Condition: Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No
CHECKED BY: _____
REMARKS: _____
Phone Result: ☐ Yes ☐ No **Add'l Phone #:** _____
Fax Result: ☐ Yes ☐ No **Add'l Fax #:** _____



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

October 05, 2015

AMY RUTH

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: NIF 24 FEDERAL #14

Enclosed are the results of analyses for samples received by the laboratory on 10/02/15 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "C. Keene", with a stylized flourish at the end.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	10/02/2015	Sampling Date:	09/30/2015
Reported:	10/05/2015	Sampling Type:	Soil
Project Name:	NIF 24 FEDERAL #14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: #1 - R (H502620-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #2 - R (H502620-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #3 - R (H502620-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/05/2015	ND	416	104	400	0.00	

Sample ID: #4 - R (H502620-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received: 10/02/2015
 Reported: 10/05/2015
 Project Name: NIF 24 FEDERAL #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/30/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: #5 - R (H502620-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #6 - R (H502620-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #7 - R (H502620-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00	

Sample ID: #8 - R (H502620-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #9 - R (H502620-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received: 10/02/2015
 Reported: 10/05/2015
 Project Name: NIF 24 FEDERAL #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/30/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: #10 - R (H502620-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #11 - R (H502620-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	416	104	400	0.00		

Sample ID: #12 - R (H502620-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

Sample ID: #13 - R (H502620-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

Sample ID: #14 - R (H502620-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received: 10/02/2015
 Reported: 10/05/2015
 Project Name: NIF 24 FEDERAL #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/30/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: #15 - R (H502620-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92	

Sample ID: #16 - R (H502620-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

Sample ID: #17 - R (H502620-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

Sample ID: #18 - R (H502620-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92	

Sample ID: #19 - R (H502620-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received: 10/02/2015
 Reported: 10/05/2015
 Project Name: NIF 24 FEDERAL #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/02/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: #20 - R (H502620-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

Sample ID: #21 - R (H502620-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

Sample ID: #22 - R (H502620-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/05/2015	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BDPD, L.P.
Project Manager:

P.O. #: 0-047

ANALYSIS REQUEST

Address:

Company: BPCD
Attn: Amy Ruth

Phone #:	Fax #:
----------	--------

Project #:	Project Owner:
6	1

Project Name: NIF 24 Federal #14

Project Location: 7011

Sampler Name: Amy Ruth

FOR LAB USE ONLY

	Lab I.D.
	Sample I.D.

H502620

#1-R

#2-R

#3-12

4-K

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#7-R

#8-R

#9-R

#10-K

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(Circle One)

Bus - Other

+ Cardinal cannot accept verbal change. Placeo for written change to Latin.

107



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BCPCD, L.P.		P.O. #:		BILL TO																																					
Project Manager:		Company: BCPCD		ANALYSIS REQUEST																																					
Address:		Attn: Amy Ruth																																							
City:		Address:																																							
Phone #:		City:																																							
Project #:		State:																																							
Project Name: NIF 24 Federal #14		Zip:																																							
Project Location:		Phone #:																																							
Sample Name: Amy Ruth		Fax #:																																							
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H50262D		#11-R		✓		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		Chloride											
12 #12-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
13 #13-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
14 #14-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
15 #15-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
16 #16-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
17 #17-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
18 #18-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
19 #19-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
20 #20-R		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											

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Relinquished By: [Signature]		Date: 10-2-15		Received By: [Signature]		Date: 10-2-15		Time: 4:30pm		Sample Condition		CHECKED BY: [Signature]		REMARKS: KLASH!!	
Delivered By: (Circle One)		Time: 4:30pm		Cool		Intact		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #:		Add'l Fax #:	
Sampler - UPS - Bus - Other:		Time: 4:30pm		Cool		Intact		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #:		Add'l Fax #:	

2 of 3



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>BOPCO, L.P.</u>		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager:		City:		State:		Zip:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:					
Project #:		Project Name:		Project Location:		Sample Name:		FOR LAB USE ONLY		Matrix		Preserv		Sampling		Date		Time		Result		Add'l Phone #:					
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Sample Condition		Checked By:		Phone Result:		Fax Result:		REMARKS:							
Relinquished By: <u>[Signature]</u>		Date: <u>10-2-15</u>		Time: <u>4:30 PM</u>		Received By: <u>Debi Shewer</u>		Date: <u>10-2-15</u>		Time: <u>10:20</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Checked By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		REMARKS: <u>215H!!</u>							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Date:		Time:		Received By:		Date:		Time:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Checked By:		Phone Result:		Fax Result:		REMARKS:							
Sampler - UPS - Bus - Other:		Date:		Time:		Received By:		Date:		Time:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Checked By:		Phone Result:		Fax Result:		REMARKS:							

Cardinal cannot warrant work or change. Please fax written change to (575) 393-2476

3 of 3



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

October 15, 2015

AMY RUTH

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: NORTH INDIAN FLATS 24 FED 14

Enclosed are the results of analyses for samples received by the laboratory on 10/14/15 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	10/14/2015	Sampling Date:	10/13/2015
Reported:	10/15/2015	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: #13-3' (H502693-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/15/2015	ND	400	100	400	3.92	

Sample ID: #14-3' (H502693-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/15/2015	ND	400	100	400	3.92	

Sample ID: #16-6' (H502693-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/15/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

October 21, 2015

AMY RUTH

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: NORTH INDIAN FLATS 24 FED 14

Enclosed are the results of analyses for samples received by the laboratory on 10/20/15 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	10/20/2015	Sampling Date:	10/16/2015
Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WIA W WALL 2 (H502738-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/21/2015	ND	416	104	400	0.00		

Sample ID: WIA S WALL (H502738-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/21/2015	ND	416	104	400	0.00	

Sample ID: WIA E WALL 3 (H502738-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/21/2015	ND	416	104	400	0.00	

Sample ID: EIA E WALL (H502738-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/21/2015	ND	416	104	400	0.00	

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:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	10/20/2015	Sampling Date:	10/19/2015
Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EIA N WALL 2 (H502738-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/21/2015	ND	416	104	400	0.00		

Sample ID: EIA NE WALL 2 (H502738-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/21/2015	ND	416	104	400	0.00	

Sample ID: EIA W WALL 5 (H502738-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/21/2015	ND	416	104	400	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

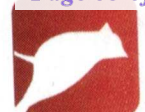
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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BDFCO, L.P. Project Manager: Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Location: North Indian Flats 24 Fed #14 Sample Name:						P.O. #: Company: BDFCO Attn: Amy Ruth Address: City: State: Zip: Phone #: Fax #:						BILL TO						ANALYSIS REQUEST																													
FOR LAB USE ONLY																																															
Lab I.D. H509138												Sample I.D.																																			
WIA Wall 2 ↓ S Wall 3 EIA Wall 2 ↓ NE Wall 5 W Wall 5												(G)RAB OR (C)OMP.												# CONTAINERS																							
												GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :												DATE TIME												Chloride											
Relinquished By:												Received By:												Date:												Time:											
Delivered By: (Circle One)												Sample Condition												CHECKED BY:												REMARKS:											
Sampler - UPS - Bus - Other:												Cool Intact												Phone Result:												Fax Result:											
24.42												<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												<input type="checkbox"/> Yes <input type="checkbox"/> No												<input type="checkbox"/> Yes <input type="checkbox"/> No											

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

November 04, 2015

AMY RUTH

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: NIF 24 FEDERAL #14

Enclosed are the results of analyses for samples received by the laboratory on 10/29/15 15:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Bass Enterprises
 AMY RUTH
 522 W. Mermod #709
 Carlsbad NM, 88220
 Fax To: (505) 887-7473

Received:	10/29/2015	Sampling Date:	10/21/2015
Reported:	11/04/2015	Sampling Type:	Soil
Project Name:	NIF 24 FEDERAL #14	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WIA N WALL 2 (H502844-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/03/2015	ND	384	96.0	400	4.08	

Sample ID: EIA SW WALL (H502844-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/03/2015	ND	384	96.0	400	4.08	

Sample ID: EIA S WALL (H502844-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/03/2015	ND	400	100	400	0.00		

Sample ID: EIA SE WALL (H502844-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/03/2015	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

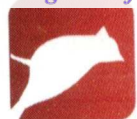
Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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

BILL TO

ANALYSIS REQUEST

Company Name: BOPCO, L.P.
Project Manager:

Address:

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: North Indian Flats 24 Fed #14

Project Location:

Sample Name: Amy Ruth

FOR LAB USE ONLY

Lab I.D. Sample I.D.

#502844

1 WIA N Wall
2 EIR SW Wall
3 SE Wall
4 ↓

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

10-21-15

10-23-15

↓

Chloride

P.O. #:

Company:

Attn: Amy Ruth

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

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Relinquished By:

Date:

Received By:

Time:

Reinquinshed By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date:

Received By:

Sample Condition
☐ Cool ☒ Intact
☐ Yes ☒ No

CHECKED BY:

REMARKS:

Email results asruth@basspet.com

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

ATTACHMENT 4: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: West facing view of reclaimed lease road.



Photograph 2: Northwest facing view of reclaimed well pad.



Photograph 3: Southeast facing view of reclaimed well pad.



Photograph 4: South facing view of reclaimed well pad.

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 8181

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 8181
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	DTGW not adequately assessed. Data allows for closure.	9/22/2022