

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
NORTH INDIAN FLATS 26 FEDERAL #1
Eddy County, New Mexico
Unit Letter "G" (SW/NE), Section 26, Township 21 South, Range 28 East
Latitude 32.452530° North, Longitude 104.054850 ° West
NMOCD Reference #: 2RP-1624**

Prepared For:

BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

December 2013

A handwritten signature in black ink, appearing to read "Ben J. Arguijo", is written over a horizontal line.

Ben J. Arguijo
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as North Indian Flats 26 Federal #1 (North Indian Flats). The legal description of the release site is Unit Letter "G" (SW/NE), Section 26, Township 21 South, Range 28 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.452530° North latitude and 104.054850° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On April 4, 2013, BOPCO discovered a release had occurred at the North Indian Flats 26 Federal #1 tank battery. A three-inch (3") water dump line from the heater treater to the on-site produced water storage tank developed a leak, resulting in a release of produced water. The release was attributed to internal corrosion. During initial response activities, a repair clamp was installed to mitigate the release, and heavily impacted soil was scraped up and stockpiled on-site, pending final disposition.

The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on April 16, 2013. The "Release Notification and Corrective Action" (Form C-141) indicated twenty-five barrels (25 bbls) of produced water were released, with no recovery. The release impacted an area of the caliche well pad and tank battery pad measuring approximately five thousand, eight hundred square feet (5,800 ft²).

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 26, Township 21 South, Range 28 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and thirty-five feet (135') to one hundred and forty feet (140') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the North Indian Flats release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) – 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

Following initial response activities, on July 29, 2013, delineation of the release site commenced. A series of six (6) hand-augered soil borings were advanced along the flow path of the release to investigate the vertical and horizontal extent of impacted soil, beginning with soil boring HA-1 near the release point and ending with soil boring HA-6 near the terminus of the flow path. The soil borings were advanced in three-foot (3') increments. Soil boring HA-1 through HA-4 were each advanced to a total depth of approximately six feet (6') bgs, while soil borings HA-5 and HA-6 were each advanced to a total depth of approximately three feet (3') bgs. Core soil samples were field-screened using a chloride test kit and/or photo-ionization detector (PID).

A total of (4) soil samples (HA-1 @ 3', HA-3 @ 3', HA-4 @ 3', and HA-6 @ 3') were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of TPH, BTEX, and/or chloride concentrations in accordance with Environmental Protection Agency (EPA) methods SW-846 8015M, SW-846 8021b, and 4500 Cl-B, respectively. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated TPH and BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted soil samples. Chloride concentrations ranged from 160 mg/kg in soil sample HA-6 @ 3' to 4,560 mg/kg in soil sample HA-1 @ 3'.

Review of laboratory analytical results and field-screens indicated that further vertical delineation would be required in the areas represented by soil borings HA- 1, HA-2, and HA-4.

On October 2, 2013, excavation of impacted soil commenced at the site. A chloride test kit was utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. From October 2 through October 11, 2013, excavated soil was stockpiled on-site, pending final disposition.

On October 3, 2013, representatives of BOPCO and Basin Environmental met with a representative of the NMOCD Artesia District Office to discuss the remediation strategy for the site. Due to environmental and safety concerns related to an active pipeline and pump-jack adjacent to the release site, and to preserve the integrity of the on-site storage tanks, it was requested that the vertical extent of the excavation be limited to a total depth of approximately three feet (3') bgs in the area defined by hand-augered soil borings HA-1 through HA-4. The area represented by soil borings HA-5 and HA-6 would be limited to a total depth of one foot (1') bgs. It was also requested that a twenty (20) mil polyurethane liner be installed in the floor of the

excavation, in the area represented by soil borings HA-1 through HA-4. The requests were approved by the NMOCD representative.

From October 4 through October 15, 2013, approximately one thousand, one hundred and forty cubic yards (1,140 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On October 8, 2013, ten (10) soil samples (North Wall #1, North Wall #2, Floor #1, Floor #2, A #1, A#2, B #1, B #2, C #1, and C #2) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Soil samples Floor #2 and A #2 were also analyzed for concentrations of BTEX. Laboratory analytical results indicated TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL in soil samples North Wall #2 and C #1 to 1,650 mg/kg in soil sample A #2.

On October 10, 2013, a single soil sample (South Wall) was collected from the sidewall of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the TPH concentration was less than the laboratory MDL, and the chloride concentration was 80.0 mg/kg.

A series of delineation trenches (D, E, and G) were also advanced in the floor of the excavation in an attempt to achieve vertical delineation of the release. Trench D was located in the southern portion of the excavation, near the on-site produced water tank. Trench E was located in the eastern portion of the excavation, between the on-site produced water tank and heater treater, in the area defined by soil boring HA-1. Trench G was located in the northwestern portion of the excavation, near an active pipeline bordering the release to the north. Soil samples collected from delineation trenches Trench D (D @ 6') and Trench E (E @ 10') were submitted to the laboratory for analysis of TPH and chloride concentrations. Soil sample E @ 10' was also analyzed for concentrations of BTEX. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL. Chloride concentrations ranged from 1,650 mg/kg in soil sample E @ 10' to 3,160 mg/kg in soil sample D @ 6'. The benzene concentration in soil sample E @ 10' was less than the laboratory MDL, and the BTEX concentration was 0.0658 mg/kg.

Permission was requested to leave soil represented by soil samples D @ 6' and E @ 10' in-situ. The request was approved by representatives of both the NMOCD and the BLM.

From October 14 through October 18, 2013, the excavation was backfilled with locally purchased, non-impacted material, compacted, and contoured to fit the surrounding topography. Prior to backfilling, a twenty (20) mil polyurethane liner was installed on the floor of the excavation at approximately three feet (3') bgs. A cushion of sand was installed both above and below the liner to protect the liner from damage during installation and backfilling activities. The final dimensions of the excavation were approximately one hundred and twenty feet (120') in length, varying in width from approximately twenty-two feet (22') to one hundred and ten feet (110'), and varying in depth from approximately one foot (1') to approximately three feet (3') bgs.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Methods 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floor and sidewalls of the North Indian Flats excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and TPH were below the regulatory remediation action levels established for the site by the NMOCD.

The release site was excavated to the extent practicable. A twenty (20) mil polyurethane liner was installed on the floor of the excavation prior to backfilling. This engineered control will help mitigate future releases and effectively inhibit vertical migration of contaminants to groundwater. In-situ soil exhibiting chloride contamination above the regulatory remediation action levels established for the site will be remediated upon decommission and/or abandonment of the currently well, pipelines, and/or storage facilities.

Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the North Indian Flats release site.

6.0 LIMITATIONS

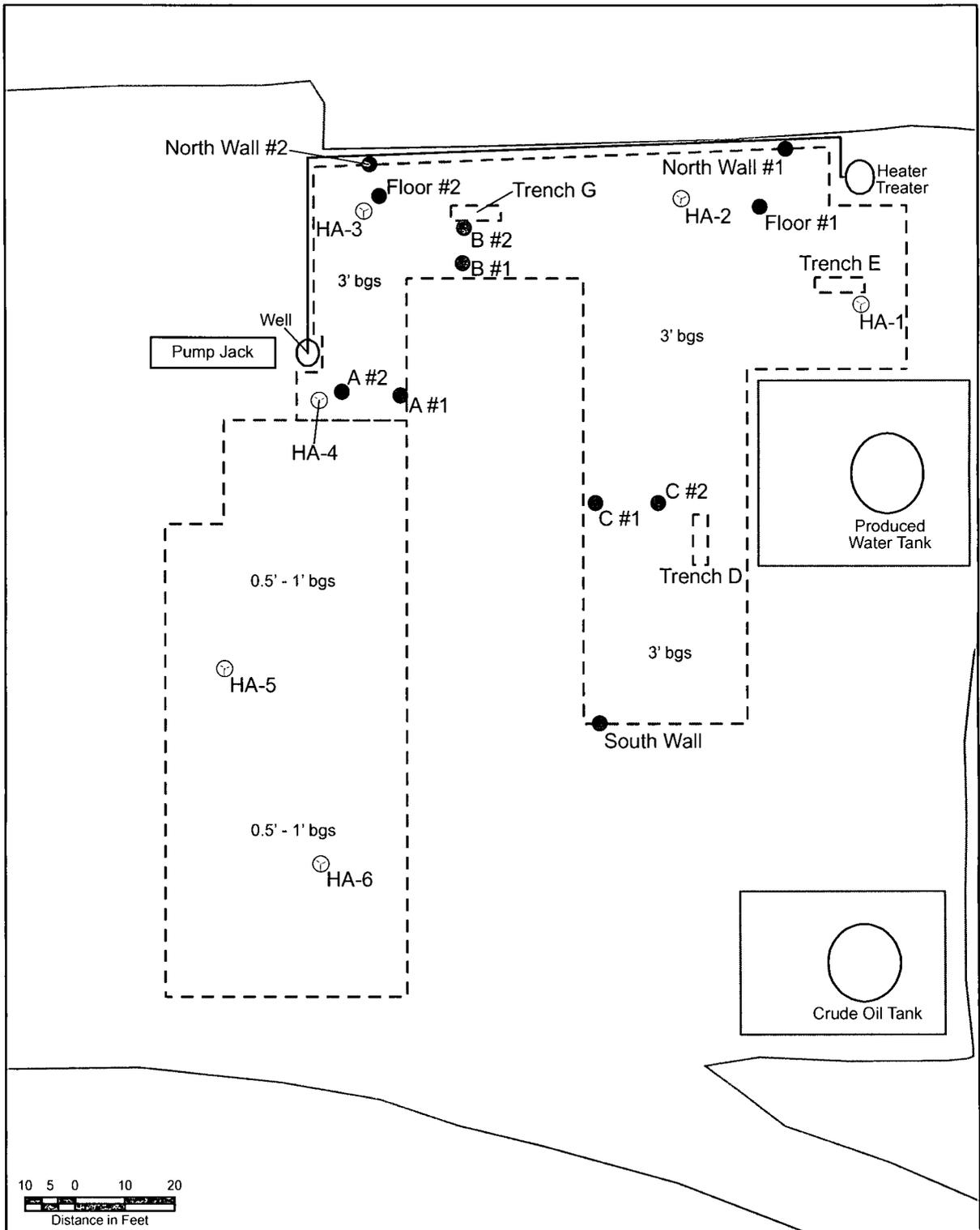
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on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

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

7.0 DISTRIBUTION:

- Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210
- Copy 2: James Amos
United States Department of the Interior
Bureau of Land Management
620 East Greene Street
P.O. Box 1778
Carlsbad, New Mexico 87220
- Copy 3: Tony Savoie
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
- Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, NM 88260

Figures



Legend	
- - Excavation	⊕ Soil Boring
— Pipeline	● Sample Location
— Berm	
— Caliche Pad/Road	

Figure 2
Site & Sample Location Map
BOPCO, LP
North Indian Flats 26 Federal #1
Eddy County, New Mexico
NMOCD Reference #: 2RP-1624

	Basin Environmental Service Technologies 3100 Plains Hwy. Lovington, NM 88260	
	Drawn By: BJA	Checked By: BRB
	Dec. 6, 2013	Scale: 1" = 30'

Tables

**TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

BOPCO, LP
NORTH INDIAN FLATS 26 FEDERAL #1
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-1624

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 Cl-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
HA-1 @ 3'	3'	7/29/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	4,560
HA-3 @ 3'	3'	7/29/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	576
HA-4 @ 3'	3'	7/29/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,680
HA-6 @ 3'	3'	7/29/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	160
North Wall #1	2.5'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	208
North Wall #2	2.5'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Floor #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	192
Floor #2	3'	10/8/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	848
A #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	240
A #2	3'	10/8/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	1,650
B #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	720
B #2	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	96.0
C #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
C #2	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
South Wall	2.5'	10/10/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	80.0
D @ 6'	6'	10/10/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,160
E @ 10'	10'	10/10/2013	In-Situ	<0.050	0.0658	<0.050	<0.150	0.0658	<10.0	<10.0	<10.0	<10.0	1,650
NMOCD Criteria				10					50			5,000	1,000

- = Not analyzed.

Appendices

Appendix A
Release Notification &
Corrective Action (Form 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

RECEIVED
APR 16 2013
NMOCD ARTESIA

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nJMW 1310754297

OPERATOR Initial Report Final Report

Name of Company: BOPCO, L.P. <u>260737</u>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-105-27556
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LOCATION OF RELEASE

Unit Letter G	Section 26	Township 21S	Range 28E	Feet from the 2150	North/South Line North	Feet from the 1980	East/West Line East	County Eddy
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Latitude N 32.452530 Longitude W 104.054850

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 25 bbls	Volume Recovered: None
Source of Release 3" water dump line	Date and Hour of Occurrence 4/4/13 time unknown	Date and Hour of Discovery 4/4/13 10:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The 3" water dump line from the heater-treater to the water tank developed a leak due to internal corrosion. A repair clamp was placed on the affected area of the pipe.

Describe Area Affected and Cleanup Action Taken.* The spill affected approximately 5800 sq. ft. of caliche well pad and tank battery pad. The saturated soil was scraped and stockpiled on site pending further remediation activities. The spill area will be remediated following the NMOCD and BLM guidelines for spills and releases.

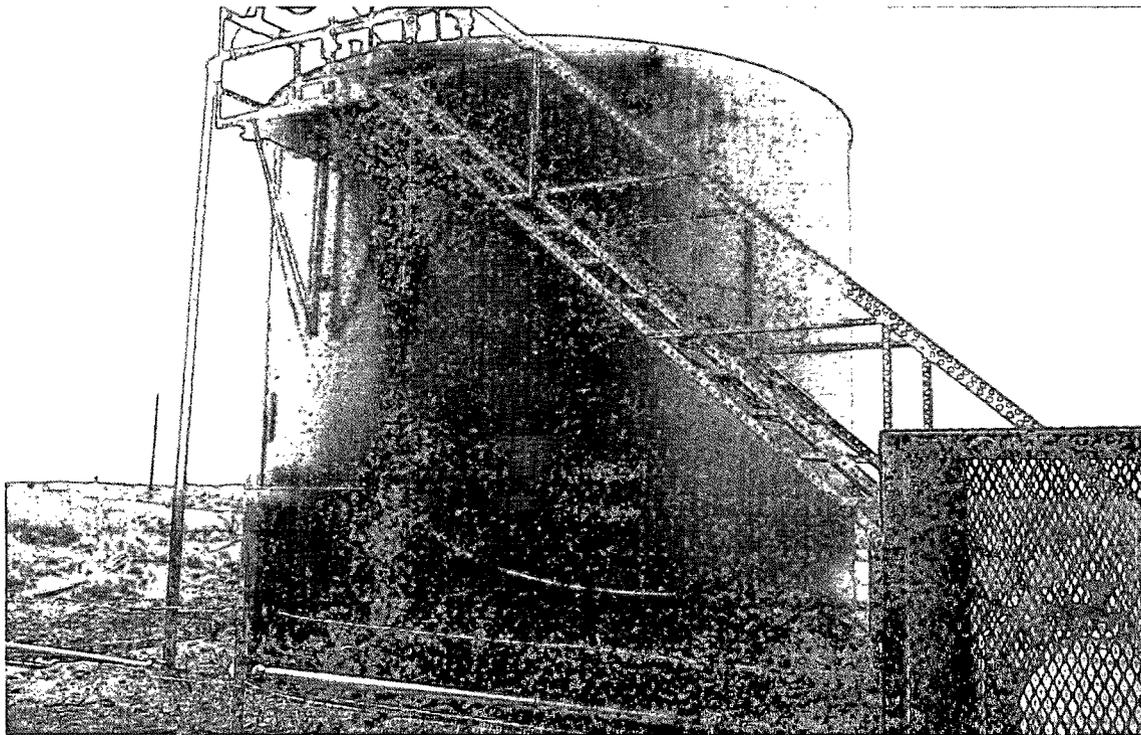
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <u>Tony Savoie</u>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by Environmental Specialist	Signed By <u>Mike Brandon</u>
Title: Waste Management and Remediation Specialist	Approval Date: APR 17 2013	Expiration Date:
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: <u>4/16/13</u> Phone: 432-556-8730	PROPOSAL NO LATER THAN:	

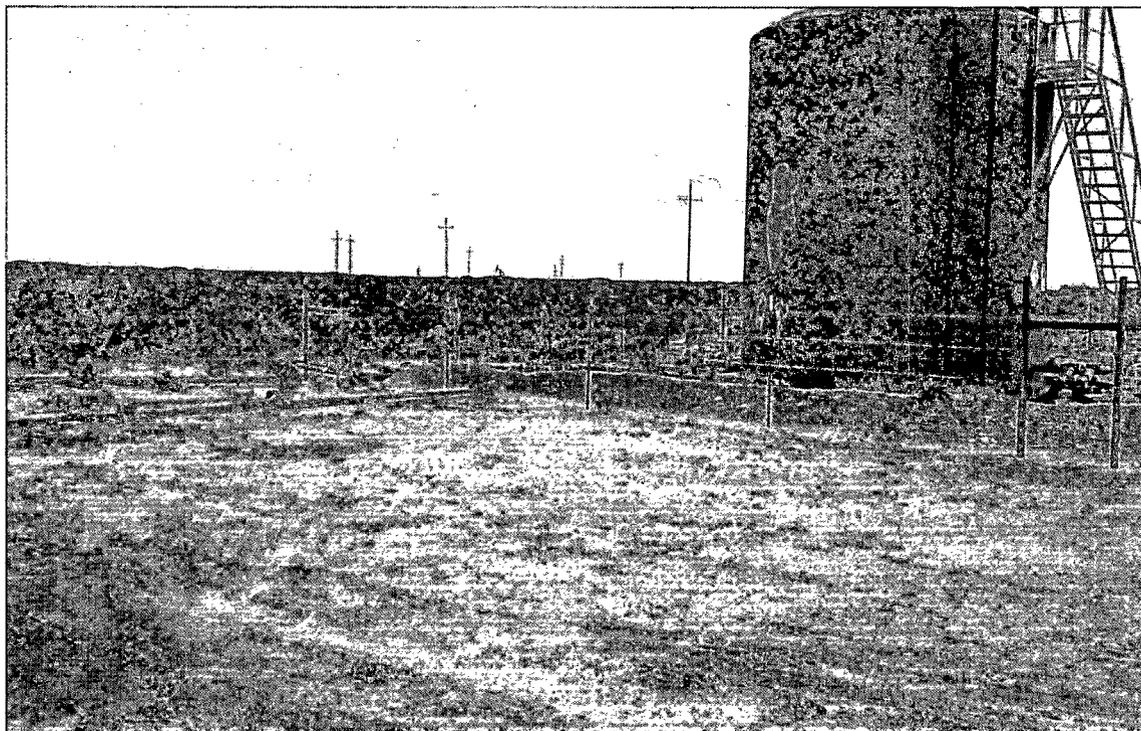
May 17, 2013 2RP-1624

* Attach Additional Sheets If Necessary

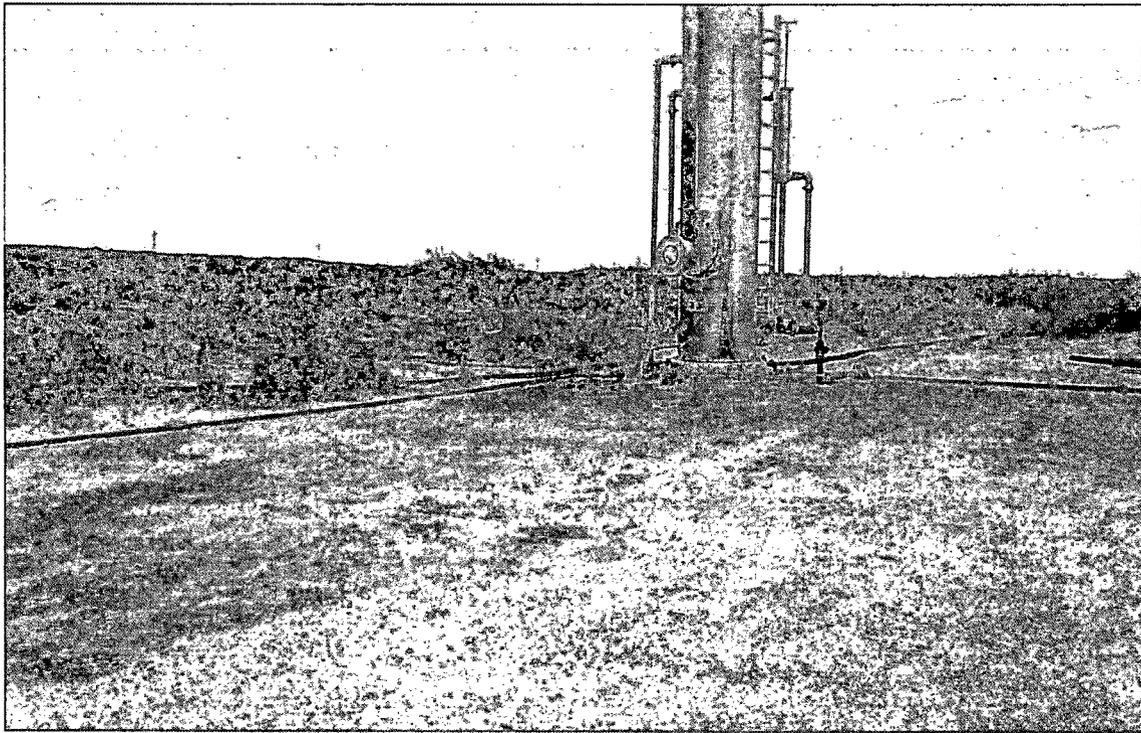
Appendix B
Photographs



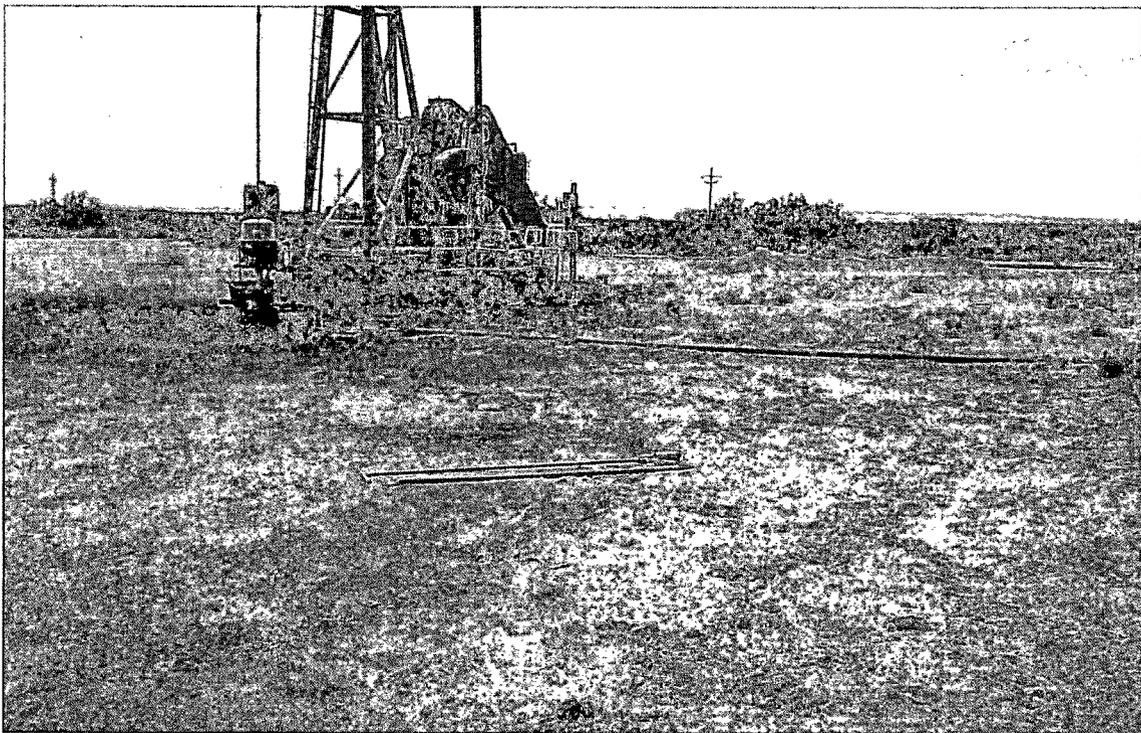
North Indian Flats 26 Federal Battery #1 - Release Site



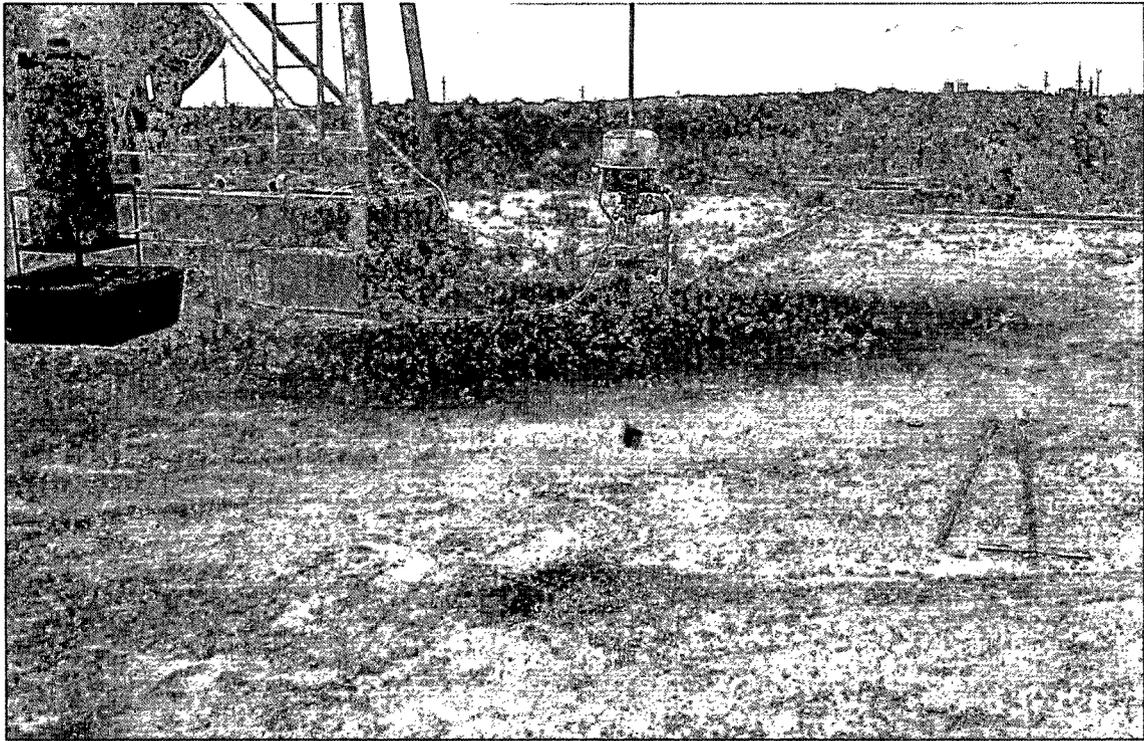
North Indian Flats 26 Federal Battery #1 - Release Site (Soil Boring HA-1 Flagged in Orange)



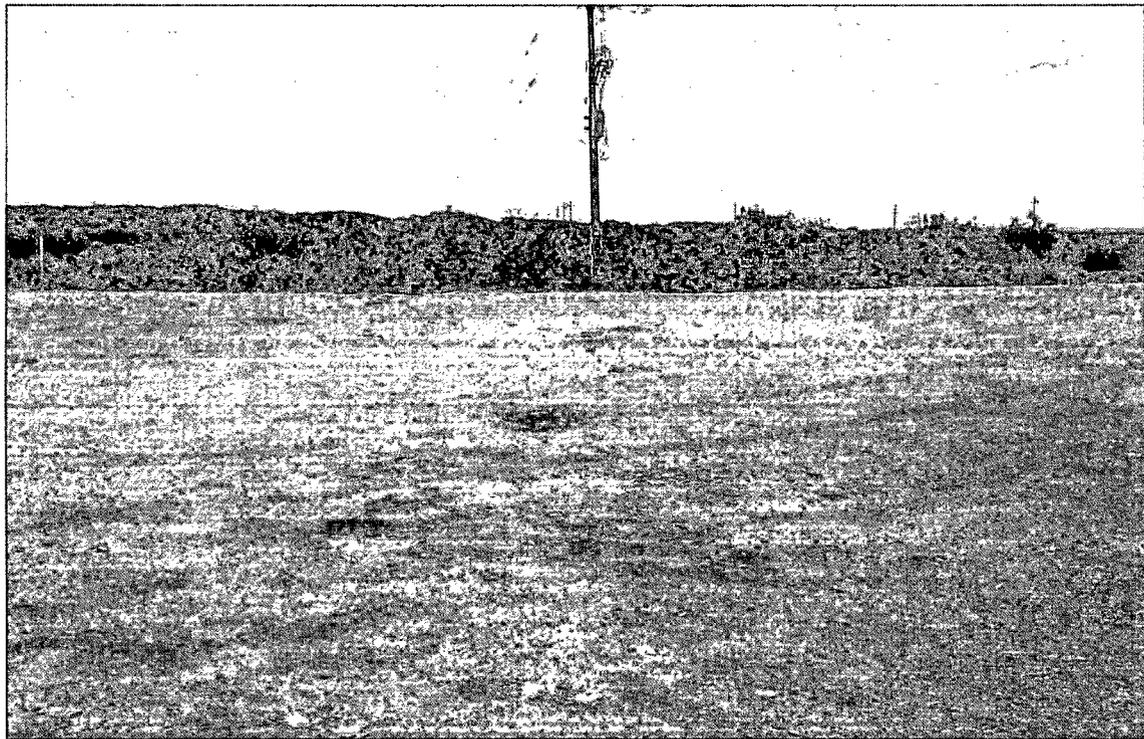
North Indian Flats 26 Federal Battery #1 - Flow Path (Soil Boring HA-2 Flagged in Orange)



North Indian Flats 26 Federal Battery #1 - Flow Path (Soil Boring HA-3 Flagged in Orange)



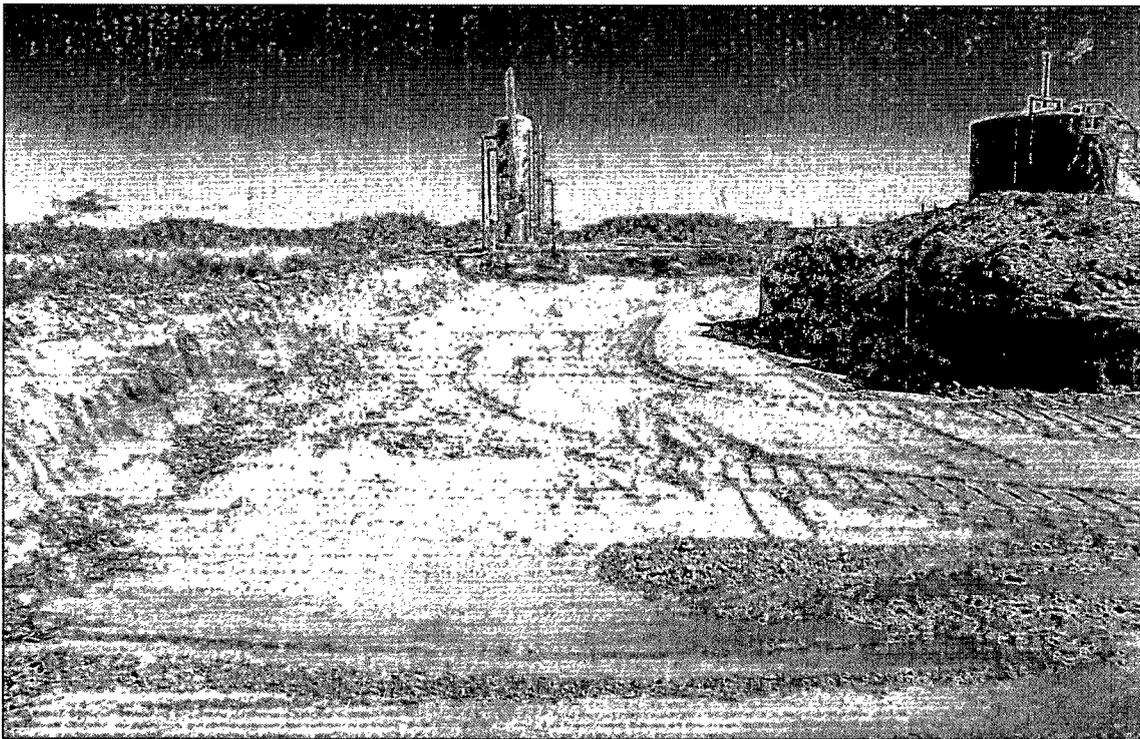
North Indian Flats 26 Federal Battery #1 - Soil Boring HA-4 (Flagged in Orange)



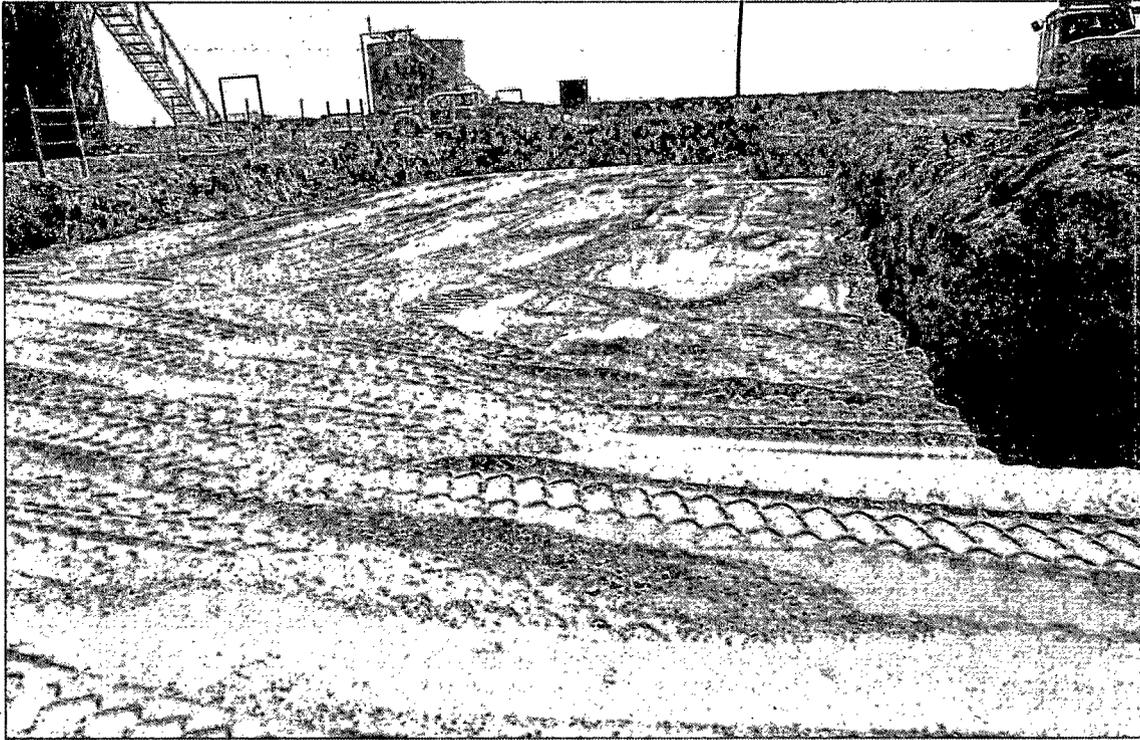
North Indian Flats 26 Federal Battery #1 - Flow Path
(Looking South (Soil Boring HA-5 Flagged in Orange))



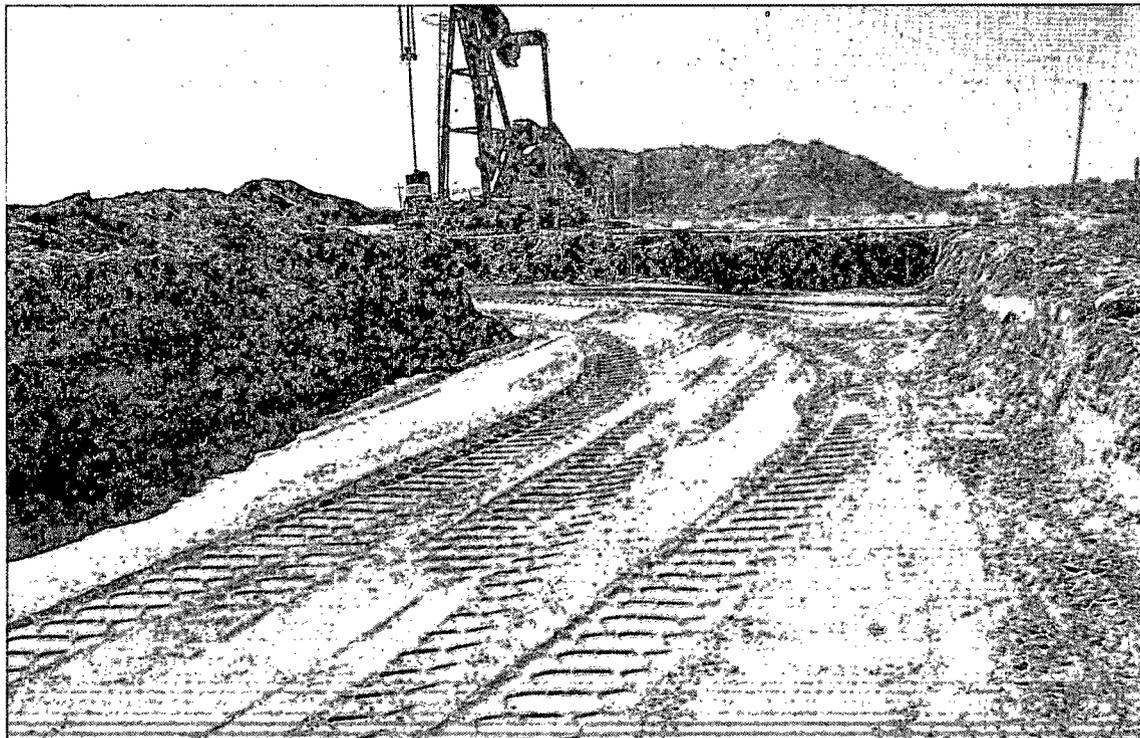
North Indian Flats 26 Federal Battery #1 - Excavation (Looking North)



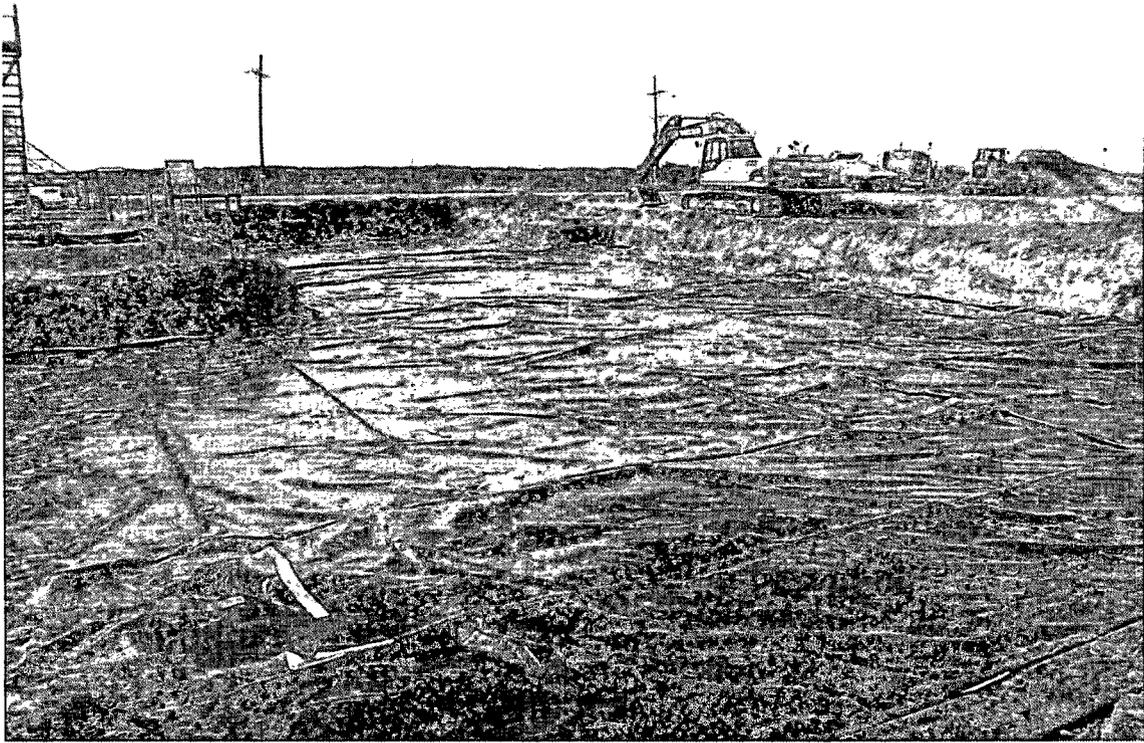
North Indian Flats 26 Federal Battery #1 - Excavation (Looking East)



North Indian Flats 26 Federal Battery #1 - Excavation (Looking South)



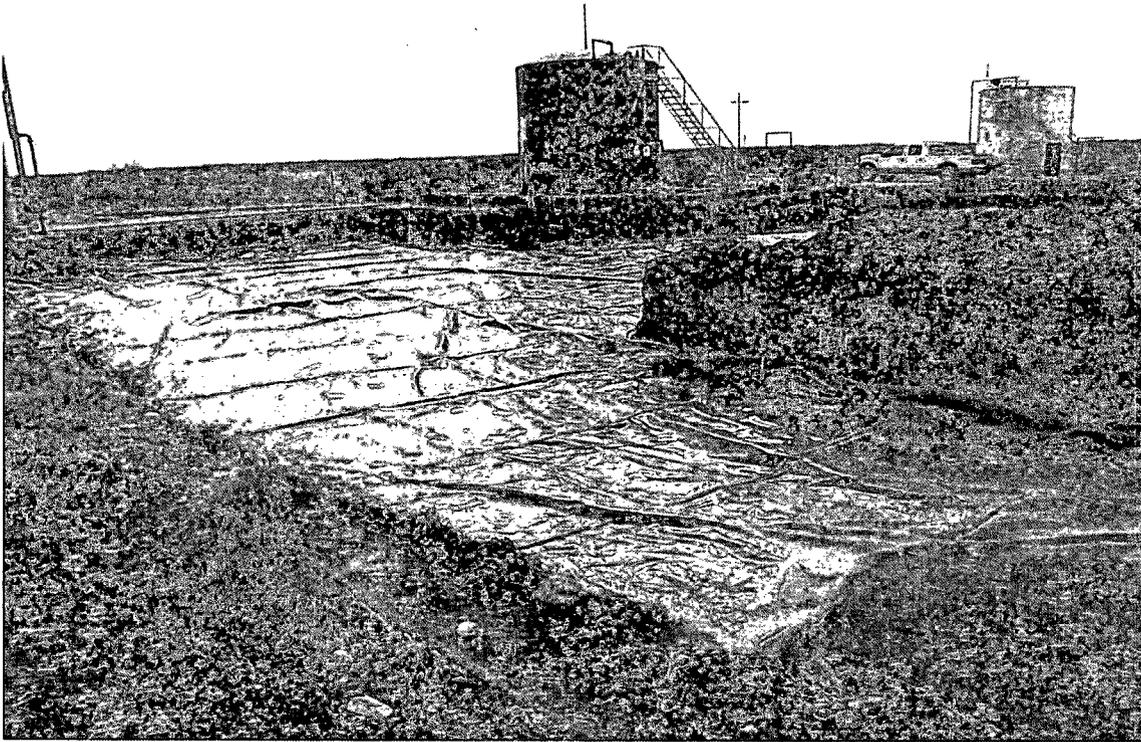
North Indian Flats 26 Federal Battery #1 - Excavation (Looking West)



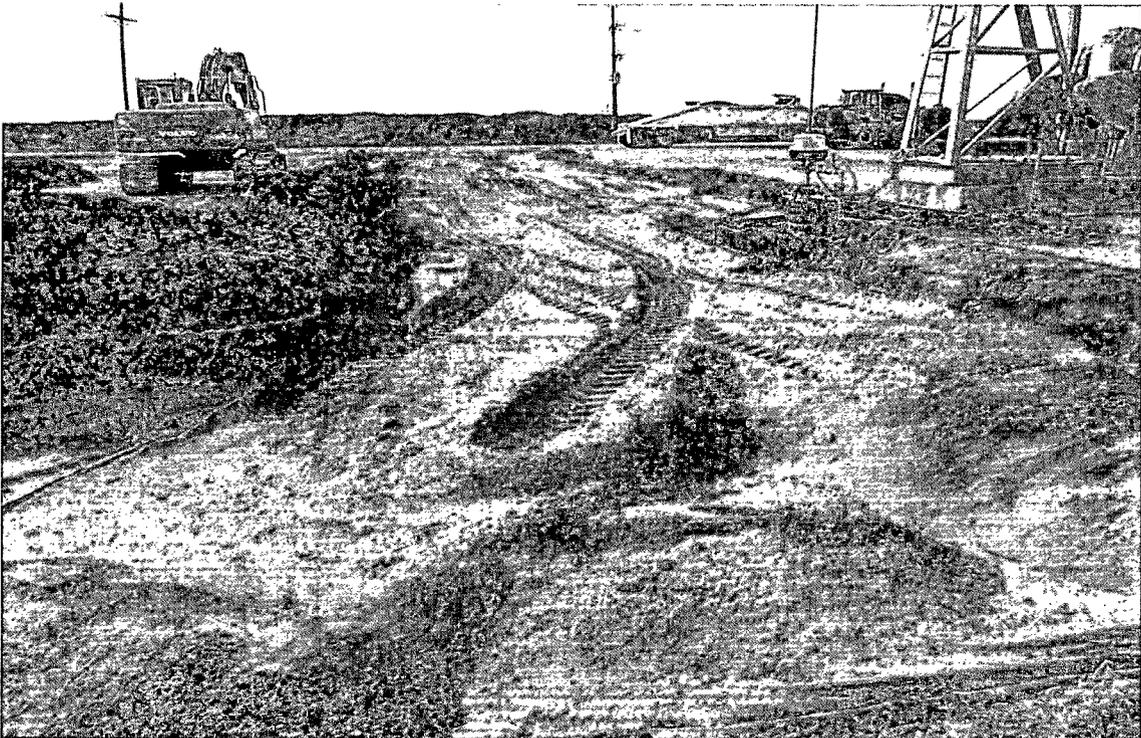
North Indian Flats 26 Federal Battery #1 - Liner Installation



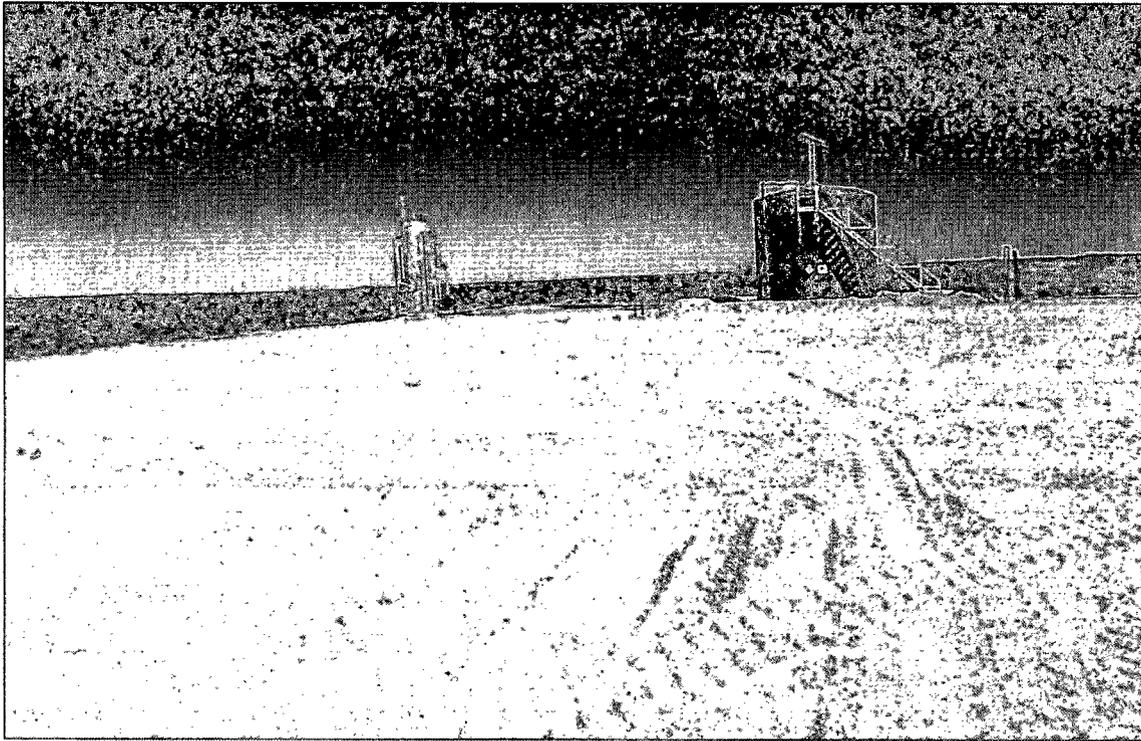
North Indian Flats 26 Federal Battery #1 - Liner Installation



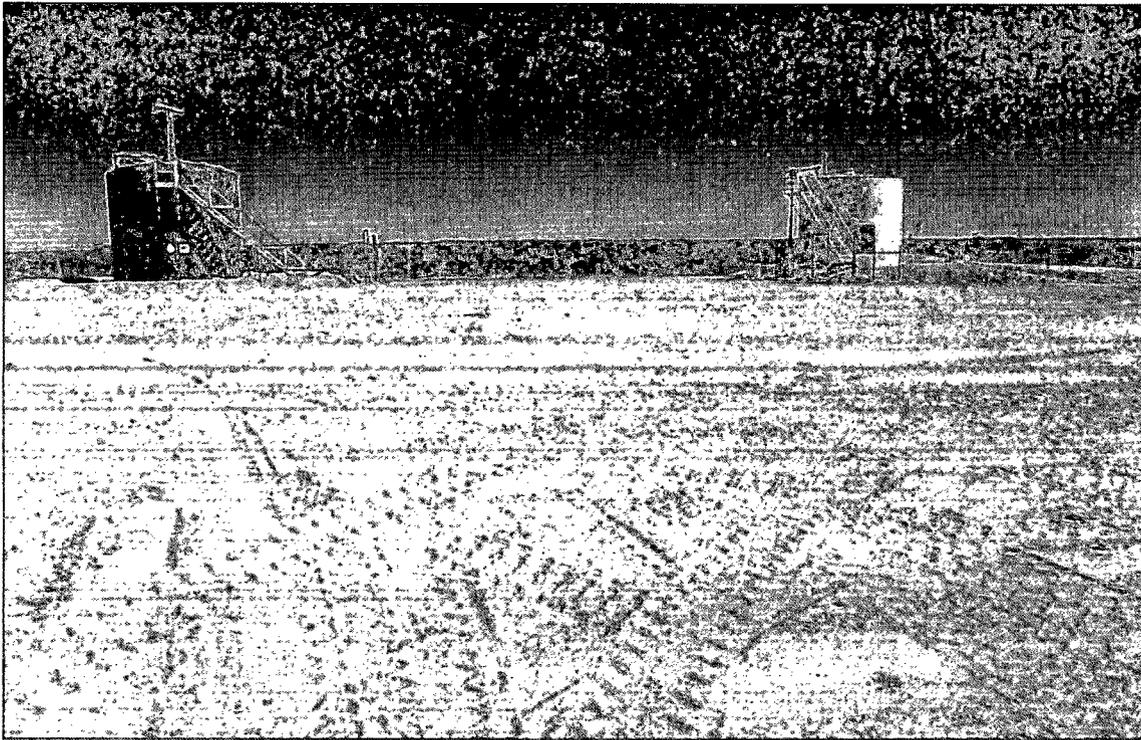
North Indian Flats 26 Federal Battery #1 - Installation of Pad Sand



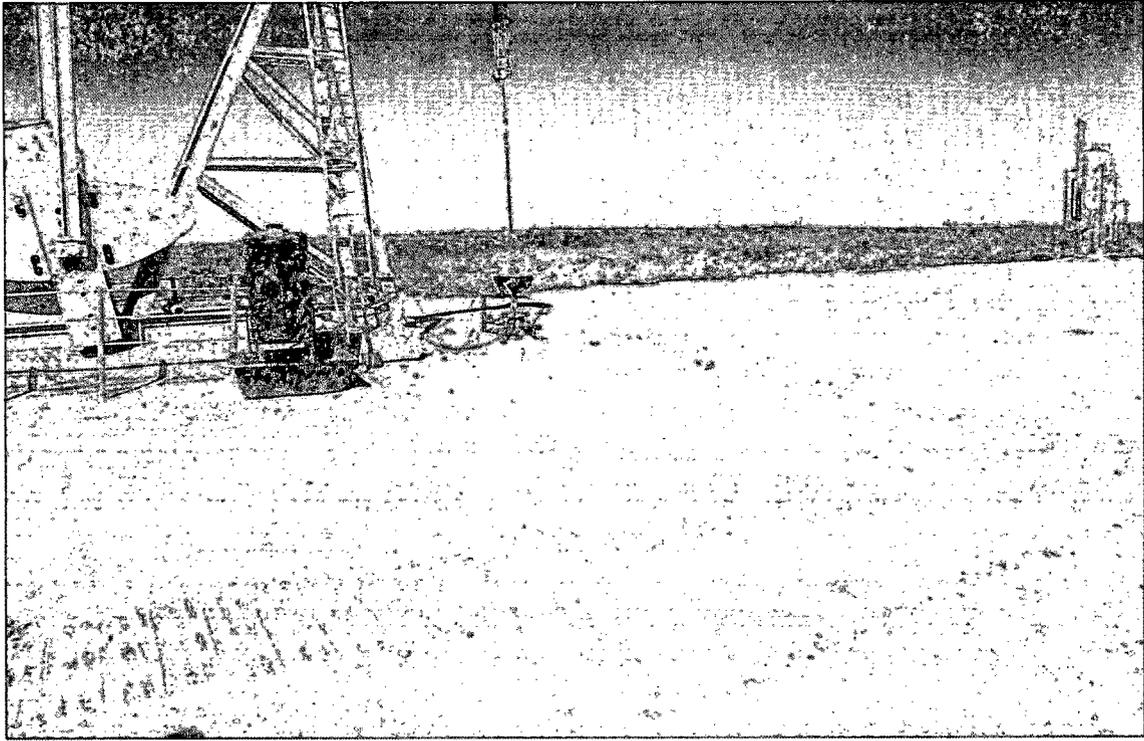
North Indian Flats 26 Federal Battery #1 - Installation of Pad Sand



North Indian Flats 26 Federal Battery #1 - Following Backfill (Looking East-northeast)



North Indian Flats 26 Federal Battery #1 - Following Backfill (Looking East-southeast)



North Indian Flats 26 Federal Battery #1 - Following Backfill (Looking Northeast)

Appendix C
Laboratory Analytical Reports

August 07, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: NORTH INDIAN FLATS 26 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

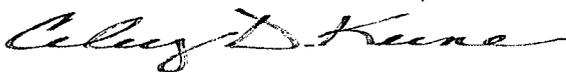
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/07/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: HA-1 @ 3' (H301791-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	07/31/2013	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7		
EXT DRO >C28-C35	<10.0	10.0	08/01/2013	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>86.4 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>115 %</i>	<i>63.6-154</i>								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/07/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: HA-3 @ 3' (H301791-02)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	

Surrogate: Dibromofluoromethane 96.5 % 61.3-142

Surrogate: Toluene-d8 98.3 % 71.3-129

Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/31/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/01/2013	ND	183	91.5	200	10.9	
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7	
EXT DRO >C28-C35	<10.0	10.0	08/01/2013	ND					

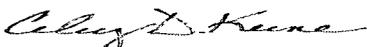
Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/07/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: HA-4 @ 3' (H301791-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	07/31/2013	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7		
EXT DRO >C28-C35	<10.0	10.0	08/01/2013	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>98.3 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>127 %</i>	<i>63.6-154</i>								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/07/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: HA-6 @ 3' (H301791-04)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		

Surrogate: Dibromofluoromethane 98.5 % 61.3-142

Surrogate: Toluene-d8 99.3 % 71.3-129

Surrogate: 4-Bromofluorobenzene 100 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/31/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7		
EXT DRO >C28-C35	<10.0	10.0	08/01/2013	ND						

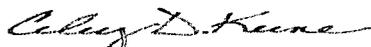
Surrogate: 1-Chlorooctane 95.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

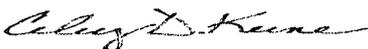
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST																																																																																																																									
Project Manager: Ben Arguijo		P.O. #:		<table border="1"> <tr><td>Chloride</td><td>TPH (8015M)</td><td>BTEX (8021B)</td><td colspan="9">BTEX added 8/5</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>												Chloride	TPH (8015M)	BTEX (8021B)	BTEX added 8/5																																																																																																										
Chloride	TPH (8015M)	BTEX (8021B)	BTEX added 8/5																																																																																																																										
Address: P.O. Box 301		Company: BOPCO, LP																																																																																																																											
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																																																																																																																											
Phone #: (575)396-2378 Fax #: (575)396-1429		Address: 522 W. Marland																																																																																																																											
Project #: Project Owner:		City: Carlsbad																																																																																																																											
Project Name: North Indian Flats 26 Federal #1		State: NM Zip: 88220																																																																																																																											
Project Location: Eddy Co., NM		Phone #: (432)556-8730																																																																																																																											
Sampler Name: Ben J. Arguijo		Fax #:																																																																																																																											

Lab I.D.	Sample I.D.	(GRAB OR C) OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)	BTEX added 8/5
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER				
H301791																
1	HA-1 @ 3'	G	1			X			X		7/29/13	1210	X	X		
2	HA-3 @ 3'	G	1			X			X		7/29/13	1230	X	X		
3	HA-4 @ 3'	G	1			X			X		7/29/13	1245	X	X		
4	HA-6 @ 3'	G	1			X			X		7/29/13	1310	X	X		

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Relinquished By:	Date: 7/29/13	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)	Time: 1125	Time:	REMARKS:
Sampler - UPS - Bus - Other:	Date:	Time:	****Run BTEX if Chloride is ≤ 1,000 mg/kg AND TPH is ≤ 5,000 mg/kg ****
FORM-006	Sample Condition	CHECKED BY:	Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
Revision 1.0	-0.8°C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54



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

October 16, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: NORTH INDIAN FLATS 26 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 10/08/13 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH WALL #1 (H302432-01)

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	10/09/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/12/2013	ND	201	101	200	0.560		
DRO >C10-C28	<10.0	10.0	10/12/2013	ND	211	105	200	8.27		
EXT DRO >C28-C35	<10.0	10.0	10/12/2013	ND						

Surrogate: 1-Chlorooctane 99.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Sample ID: NORTH WALL #2 (H302432-02)

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	10/09/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/08/2013	ND	201	101	200	0.560		
DRO >C10-C28	<10.0	10.0	10/08/2013	ND	211	105	200	8.27		
EXT DRO >C28-C35	<10.0	10.0	10/08/2013	ND						

Surrogate: 1-Chlorooctane 96.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #1 (H302432-03)

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	10/09/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/08/2013	ND	201	101	200	0.560		
DRO >C10-C28	<10.0	10.0	10/08/2013	ND	211	105	200	8.27		
EXT DRO >C28-C35	<10.0	10.0	10/08/2013	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>88.6 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>63.6-154</i>								

Cardinal Laboratories

*=Accredited Analyte

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 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #2 (H302432-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35		
Toluene*	<0.050	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23		
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82		
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78		
Total BTEX	<0.300	0.300	10/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

Surrogate: 1-Chlorooctane 99.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: A #1 (H302432-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/09/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

<i>Surrogate: 1-Chlorooctane</i>	<i>115 %</i>	<i>65.2-140</i>
<i>Surrogate: 1-Chlorooctadecane</i>	<i>114 %</i>	<i>63.6-154</i>

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: A #2 (H302432-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35		
Toluene*	<0.050	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23		
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82		
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78		
Total BTEX	<0.300	0.300	10/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: B #1 (H302432-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	10/09/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

Sample ID: B #2 (H302432-08)

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	10/09/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

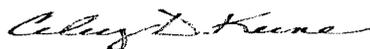
Surrogate: 1-Chlorooctane 98.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/08/2013	Sampling Date:	10/08/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: C #1 (H302432-09)

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	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

Surrogate: 1-Chlorooctane 103 % 65.2-140
 Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: C #2 (H302432-10)

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	10/09/2013	ND	432	108	400	3.77		

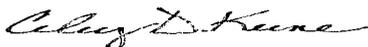
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2013	ND	200	100	200	0.683		
DRO >C10-C28	<10.0	10.0	10/09/2013	ND	194	97.0	200	2.22		
EXT DRO >C28-C35	<10.0	10.0	10/09/2013	ND						

Surrogate: 1-Chlorooctane 102 % 65.2-140
 Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

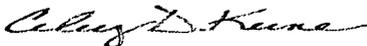
Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

October 16, 2013

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: NORTH INDIAN FLATS 26 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 10/10/13 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/10/2013	Sampling Date:	10/10/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH WALL (H302463-01)

Chloride, SM4500CI-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	10/11/2013	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/11/2013	ND	206	103	200	6.70		
DRO >C10-C28	<10.0	10.0	10/11/2013	ND	197	98.3	200	7.58		
EXT DRO >C28-C35	<10.0	10.0	10/11/2013	ND						

Surrogate: 1-Chlorooctane 102 % 65.2-140
 Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Sample ID: D @ 6' (H302463-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	10/11/2013	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/11/2013	ND	206	103	200	6.70		
DRO >C10-C28	<10.0	10.0	10/11/2013	ND	197	98.3	200	7.58		
EXT DRO >C28-C35	<10.0	10.0	10/11/2013	ND						

Surrogate: 1-Chlorooctane 99.8 % 65.2-140
 Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	10/10/2013	Sampling Date:	10/10/2013
Reported:	10/16/2013	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 26 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E @ 10' (H302463-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/15/2013	ND	1.94	97.1	2.00	4.35		
Toluene*	0.068	0.050	10/15/2013	ND	1.97	98.3	2.00	4.23		
Ethylbenzene*	<0.050	0.050	10/15/2013	ND	2.00	99.9	2.00	5.82		
Total Xylenes*	<0.150	0.150	10/15/2013	ND	5.82	97.0	6.00	4.78		
Total BTEX	<0.300	0.300	10/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 96.6% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	10/11/2013	ND	416	104	400	3.92		

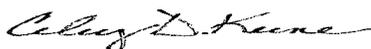
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/11/2013	ND	206	103	200	6.70		
DRO >C10-C28	<10.0	10.0	10/11/2013	ND	197	98.3	200	7.58		
EXT DRO >C28-C35	<10.0	10.0	10/11/2013	ND						

Surrogate: 1-Chlorooctane 84.3% 65.2-140
Surrogate: 1-Chlorooctadecane 91.6% 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

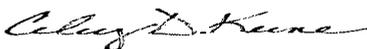
Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST																			
Project Manager: Ben Arguijo		P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)																	
Address: P.O. Box 301		Company: BOPCO, LP																					
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																					
Phone #: (575)396-2378 Fax #: (575)396-1429		Address: 522 W. Marland																					
Project #: Project Owner:		City: Carlsbad																					
Project Name: North Indian Flats 26-1		State: NM Zip: 88220																					
Project Location: Eddy Co., NM		Phone #: (432)556-8730																					
Sampler Name: Steve Taylor		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS				MATRIX				PRESERV.	SAMPLING											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
H302463													10/10/13	12:30	X	X							
1	South Wall												10/10/13	1:00	X	X							
2	De 6'												10/10/13	1:30	X	X	X						
3	E @ 10'																						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 10/10/13 Time: 3:25	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	REMARKS:	
Sampler - UPS - Bus - Other: FORM-006	4.6°C <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	

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