

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
JAMES RANCH UNIT #41
Eddy County, New Mexico
Unit Letter "N" (SE/SW), Section 36, Township 22 South, Range 30 East
Latitude 32.343149° North, Longitude 103.835467° West
NMOCD Reference #s 2RP- 70 λ**

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**

June 2012

Joel W. Lowry

Project Manager

NMOCD

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Risk-Based Site Closure Request* for the release site known as James Ranch Unit #41 (JRU #41). The legal description of the release site is Unit Letter "N" (SE/SW), Section 36, Township 22 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.343149° North latitude and 103.835467° West longitude. The property affected by the release is owned by The State of New Mexico and administered by the New Mexico State Land Office (NMSLO). Please reference Figure 1 for a "Site Location Map" and Figure 2 for "Site & Sample Location Map".

On August 25, 2011, BOPCO discovered a release had occurred at the JRU #41. The release was attributed to the failure of the "stuffing box packing". The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on September 13, 2011. The "Release Notification and Corrective Action" (Form C-141) indicated approximately five (5) barrels of crude oil and fifteen (15) barrels of produced water were released, with approximately ten (10) barrels of total fluid being recovered. During initial response activities a vacuum truck was utilized to recover free-standing fluids, and visibly stained soil was excavated and stockpiled on-site atop an impermeable liner pending final disposition. The release affected approximately three thousand square feet (3,000 ft²) of existing well pad. A 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 36, Township 22 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred feet (200') 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 1,000 feet 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 1,000 feet 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 JRU #41 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)
- BTEX – 50 mg/Kg (ppm)
- 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

On May 11, 2012, following the initial response, Basin began remediation activities at the release site. Two (2) composite soil samples (Backfill Sample 1 and Backfill Sample 2) were collected from the unaffected western and southern portions of the existing well pad in order to evaluate its potential use as backfill. Soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of benzene, ethylbenzene, toluene, and xylene (BTEX) in accordance with EPA Method SW-846 8021b, total petroleum hydrocarbon (TPH) in accordance with EPA Method SW-846 8015M, and/or chloride concentrations in accordance with EPA Method 4500Cl-B. Laboratory analytical results indicated total BTEX constituent and TPH concentrations were less than the appropriate laboratory method detection limits (MDL) for each of the soil samples submitted. Analytical results indicated chloride concentrations ranged from 64.0 mg/Kg for soil sample Backfill Sample 2 to 80.0 mg/Kg for soil sample Backfill Sample 1. Analytical results indicated material generated from a “well pad reduction” could be used for backfilling the remediation site. Table 1 summarizes the “Concentrations of Benzene, BTEX, TPH & Chloride in Soil”. Laboratory analytical reports are provided as Appendix C.

In order to facilitate remediation activities, the release site was divided into three (3) separate sections: Section 1, Section 2 and Section 3. Section 1 (Sec. 1) represented the release point and primary impact zone. Section 2 (Sec. 2) represented the shallow surface impact east of the JRU #41 flowline. Section 3 (Sec. 3) represented the shallow surface impact west of the JRU #41 flowline.

On May 22, 2012, a delineation trench was advanced in order to investigate the vertical extent of soil impact. Confirmation soil samples (Trench Floor 2' Sec. 1, Trench Floor 5' Sec. 1, Trench Floor 10' Sec. 1 and Trench Floor 12' Sec. 1) were collected during the advancement of the delineation trench and submitted to the laboratory for analysis of TPH and chloride concentrations. Soil sample Trench Floor 12' Sec. 1 was also analyzed for BTEX constituent concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL for each of the soil samples submitted. Laboratory analytical results indicated chloride concentrations ranged from 784 mg/Kg for soil sample Trench Floor 12' Sec. 1 to 2,760 mg/Kg for soil sample Trench Floor 2' Sec. 1. Total BTEX constituent concentrations were less than the appropriate laboratory MDL of 0.150 mg/Kg for soil sample Trench Floor 12' Sec. 1.

On May 22, 2012, excavation activities commenced at the release site. A Photo-Ionization Detector (PID) and chloride field kit were used to field screen the horizontal and vertical extent of impacted soil and to help guide the excavation. The floor of Section 1 of the excavation was advanced to approximately five feet (5') bgs pending the installation of an approved twenty (20) mil polyurethane liner. The excavation sidewalls were advanced until field tests suggested TPH and chloride concentrations were below the NMOCD regulatory remediation action levels established for the site.

Following the excavation of Section 1, four (4) confirmation soil samples (North Wall Sec.1, South Wall Sec. 1, East Wall Sec. 1 and West Wall Sec. 1) were collected from the sidewalls of

Section 1 and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples North Wall Sec. 1 and South Wall Sec. 1 to 459 mg/Kg for soil sample West Wall Sec. 1. Chloride concentrations ranged from 464 mg/Kg for soil sample North Wall Sec. 1 to 1,140 mg/Kg for soil sample South Wall Sec. 1.

On May 23, 2012, four (4) confirmation soil samples (N Wall 1' Sec. 2, S Wall 1' Sec. 2, E Wall Sec. 2 and Floor 1 1/2' Sec. 2) were collected from the floor and sidewalls in Section 2 of the excavation. Soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL for each of the soil samples submitted. Chloride concentrations ranged from 32.0 mg/Kg for soil sample Floor 1 1/2' Sec. 2 to 400 mg/Kg for soil sample S Wall 1' Sec. 2. Each of the soil samples exhibited TPH and chloride concentrations below NMOCD regulatory remediation action levels.

On May 23, 2012, four (4) confirmation soil samples (N Wall 1' Sec. 3, S Wall 1' Sec. 3, W Wall 1' Sec. 3, and Floor 1 1/2' Sec. 3) were collected from the floor and sidewalls in Section 3 of the excavation. Soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations were less than the laboratory MDL for each of the soil samples submitted. Chloride concentrations ranged from 144 mg/Kg for soil sample N Wall 1' Sec. 3 to 544 mg/Kg for soil sample W Wall 1' Sec. 3. Each of the soil samples exhibited TPH and chloride concentrations below NMOCD regulatory remediation action levels.

On May 23 and May 24, 2012, a total of approximately six hundred cubic yards (600 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035), for disposal. The final dimensions of Section 1 of the excavation were approximately thirty feet (30') in width, forty feet (40') in length and five feet (5') in depth. Section 2 measured approximately sixty feet (60') in width, seventy feet (70') in length and eighteen inches (18") in depth. Section 3 measured approximately forty-five feet (45') in width, sixty feet (60') in length and eighteen inches (18") in depth.

On May 24, 2012, a twenty (20) mil polyurethane liner was installed in the floor of Section 1 of the excavation at approximately five feet (5') bgs to inhibit the vertical migration of contaminants. Approximately one foot (1') of non-impacted pad sand was installed above and below the liner in order to maintain its integrity during backfilling activities.

On May 25 through May 29, 2012, upon receiving verbal approval from the NMOCD, the excavated area was backfilled. Approximately three hundred sixty cubic yards (360 yd³) of excess well pad material, along with two hundred forty (240 yd³) of locally purchased, non-impacted material, was used to backfill the excavation. Excavation backfill was compacted in eighteen inch (18") lifts and contoured to fit the needs of the pad. Areas affected by the "well pad reduction" were contoured to fit the surrounding topography and will be seeded with a BLM approved seed mixture prior to the end of the 2012 calendar year.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., 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 Method 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 excavation were analyzed by an NMOCD-approved laboratory. Soil samples collected from the floor and sidewalls of Section 1 of excavation exhibited BTEX, TPH, and chloride concentrations below the regulatory remediation action levels established for the site, with the exception of soil sample S Wall Sec. 1, which exhibited a chloride concentration of 1,140 mg/Kg. A twenty (20) mil polyurethane liner was installed in the floor of Section 1 of the excavation at approximately five feet (5') bgs to inhibit the downward migration of contaminants in the areas represented by soil samples Trench Floor 10' Sec. 1 and Trench Floor 12' Sec. 1.

Soil samples collected from the floor and sidewalls of Sections 2 and 3 of excavation exhibited TPH and chloride concentrations below the regulatory remediation action levels established for the site.

Based on laboratory analytical results, and the installation of an approved twenty (20) mil polyurethane liner, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM Carlsbad District Office a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the James Ranch Unit #41 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 has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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.

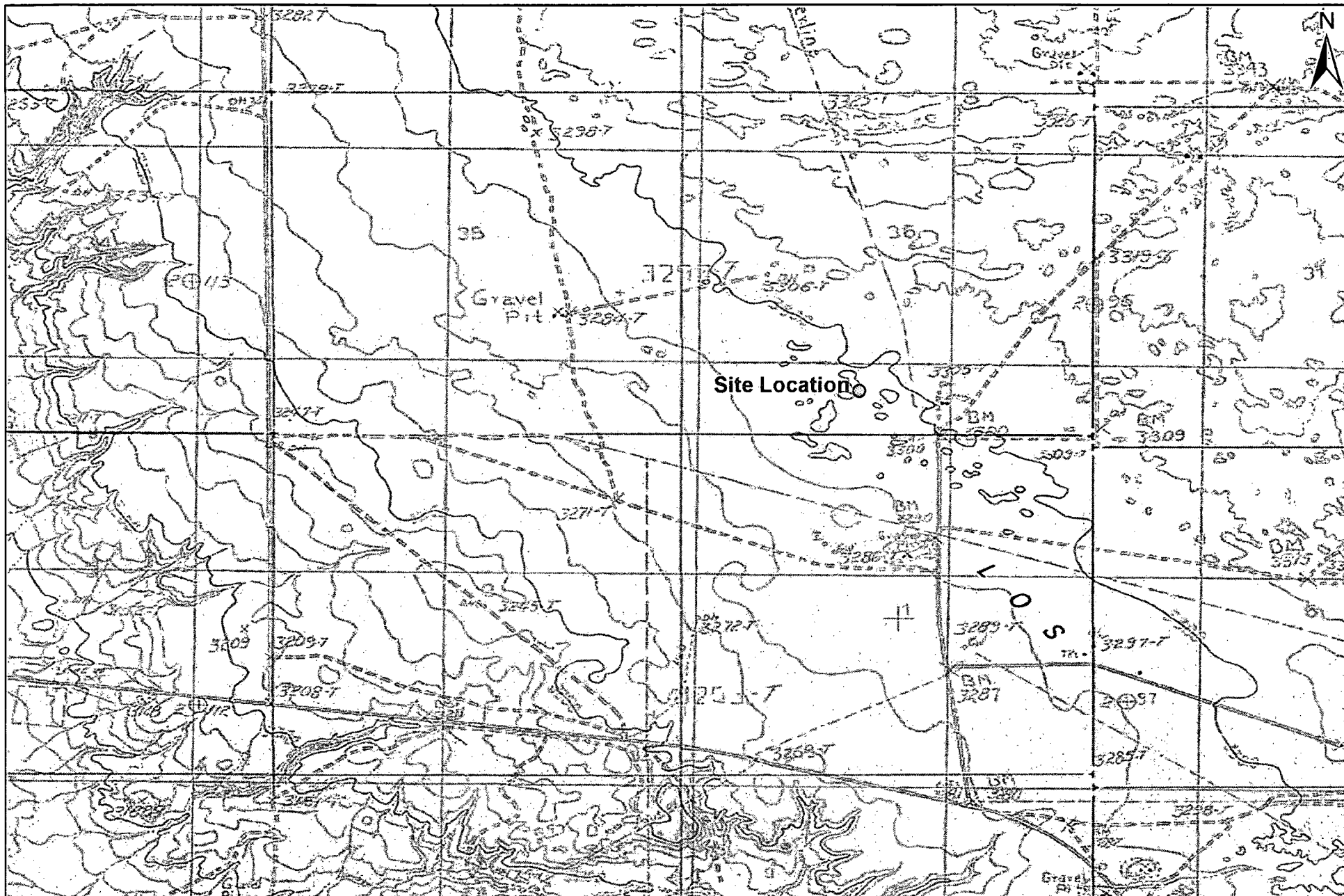
This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

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
Bureau of Land Management
602 E. Greene Street
Carlsbad, NM 88220
- 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

Figure 1
Site Location Map



1,000 500 0 1,000 2,000
Distance in Feet

Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #41
Eddy County, New Mexico



Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
May 17, 2012	Scale: 1" = 2000'

Figure 2
Site & Sample Location Map



Backfill Sample #1A

Backfill Sample #1B

Backfill Sample #1C

Backfill Sample #1D

Backfill Sample #1E

Backfill Sample #2A

Backfill Sample #2B

Backfill Sample #2C

Backfill Sample #2D

Backfill Sample #3E

Sec. 3
1.5' bgs

Sec. 1
5' bgs

Sec. 2
1.5' bgs

N Wall 1'
Sec. 3

Floor 1 1/2'
Sec. 3

West Wall
Sec. 1

North Wall
Sec. 1

Trench Floor
Sec. 1

East Wall
Sec. 1

N Wall 1'
Sec. 2

Floor 1 1/2'
Sec. 2

E Wall 1'
Sec. 2

Pump Jack

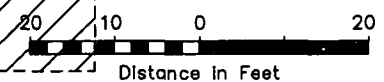
Well

South Wall
Sec. 1

S Wall 1'
Sec. 3

S Wall 1'
Sec. 2

Access Road



Legend:

--- Excavation Extent

— Pipeline

○ Sample Location

— Pad Boundary


 Pad Reduction

Figure 2
Site Map
BOPCO, L.P.
James Ranch Unit #41
Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL

Checked By: BJA

June 1, 2012

Scale 1"=20'

TABLES

Table 1

**Concentrations of Benzene, BTEX, TPH & Chloride
in Soil**

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
JAMES RANCH UNIT #41
EDDY COUNTY, NEW MEXICO

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)	E 300 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)		
Backfill Sample 1	N/A	5/11/2012	Excavated	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	80.0
Backfill Sample 2	N/A	5/11/2012	Excavated	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	64.0
Trench Floor 2' Sec. 1	2'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,760
Trench Floor 5' Sec. 1	5'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,200
Trench Floor 10' Sec. 1	10'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,360
Trench Floor 12' Sec. 1	12'	5/22/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	784
North Wall Sec. 1	4'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	464
South Wall Sec. 1	4'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,140
East Wall Sec. 1	4'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	260	87.3	347	768
West Wall Sec. 1	4'	5/22/2012	In-Situ	-	-	-	-	-	<10.0	350	109	459	752
N Wall 1' Sec 2	1'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	368
S Wall 1' Sec. 2	1'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	400
E Wall 1' Sec. 2	1'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	80.0
Floor 1 1/2' Sec 2	1.5'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
N Wall 1' Sec. 3	1'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	144
S Wall 1' Sec. 3	1'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	240
W Wall 1' Sec. 3	1'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	544
Floor 1 1/2' Sec 3	1.5'	5/23/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	256
NMOCDCriteria				10				50				5,000	

- = Not analyzed.

APPENDICES

Appendix A
Release Notification and Corrective Action
(Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1361 W. Grand Avenue, 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

Baer

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company BOPCO, L.P.	Contact Tony Savoie	
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730	
Facility Name James Ranch Unit #41	Facility Type E&P	
Surface Owner State	Mineral Owner State	Lease No E5229

LOCATION OF RELEASE

Unit Letter N	Section 36	Township 22S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.343149 Longitude W 103.835467

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 15 bbls of produced water and 5 bbls of crude oil.	Volume Recovered: 10
Source of Release: Pumping well stuffing box.	Date and Hour of Occurrence 8/25/11, Hour unknown	Date and Hour of Discovery 8/17/11 9:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" 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 stuffing box packing failed, the packing was replaced the same day.		
Describe Area Affected and Cleanup Action Taken.* Approximately 3000 sq. ft. of caliche well pad. All of the free liquid was removed with a vacuum truck and the saturated caliche was scraped up and stockpiled on-site. A remediation plan will be developed in accordance with the NMOCD remediation guidelines.		
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.		
OIL CONSERVATION DIVISION		
Signature: <i>Tony Savoie</i>	Approved by District Supervisor:	
Printed Name: Tony Savoie		
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/11/11	Phone: 432-556-8730	

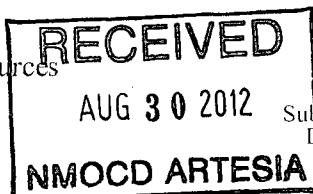
RECEIVED
SEP 13 2011
11:30
NMOCD ARTESIA

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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



Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	BOPCO, LP	Contact	Tony Savoie
Address	522 W. Mermod, Suite 704 Carlsbad, NM 88220	Telephone No.	(432) 556-8730
Facility Name	James Ranch Unit #41	Facility Type	E & P

Surface Owner State	Mineral Owner: State	Lease No. E5229
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	36	22S	30E					Eddy

Latitude N. 32.343149 Longitude W 103.835467

NATURE OF RELEASE

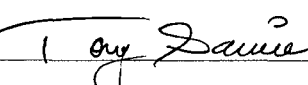
Type of Release	Produced water and crude oil	Volume of Release: 15 bbls produced water and 5 bbls of crude oil.	Volume Recovered: 10
Source of Release:	Pumping well stuffing box	Date and Hour of Occurrence	8/25/11, Hour unknown
Was Immediate Notice Given?	Yes No <input checked="" type="checkbox"/> Not Required	Date and Hour of Discovery	8/17/11 9:30 a.m.
By Whom?		If YES, To Whom?	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date and Hour:	
		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The stuffing box packing failed, the packing was replaced the same day.

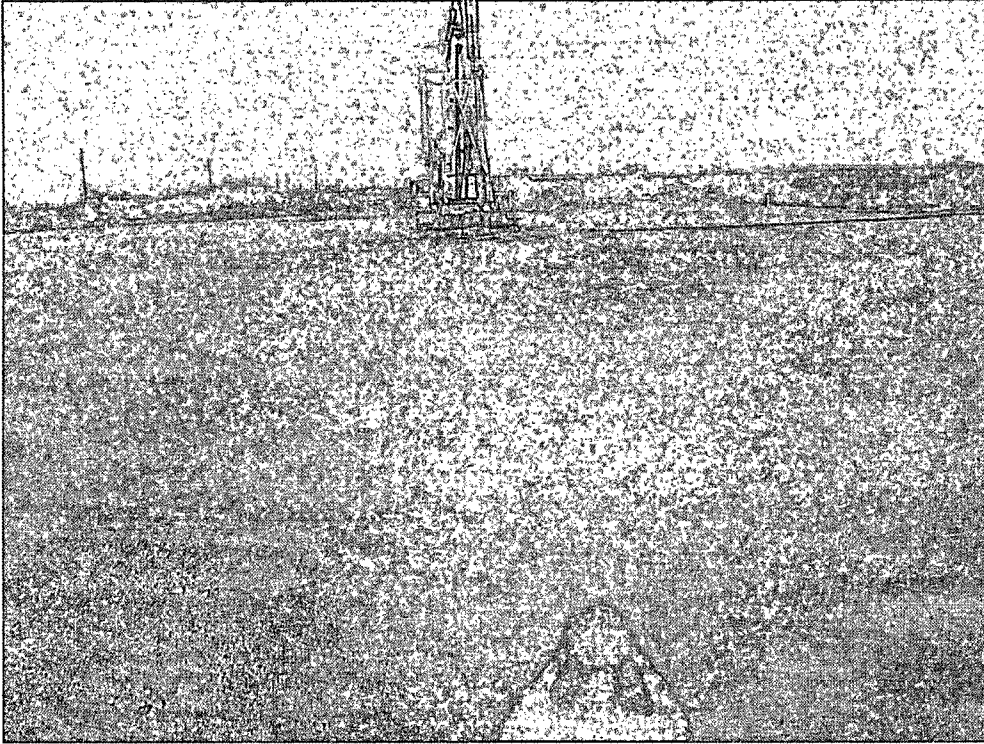
Describe Area Affected and Cleanup Action Taken.* Approximately 3000 sq. ft. of caliche well pad was affected by the release. Please see the attached Remediation Summary and Risk-Based Site Closure Request, dated June 2012, for details of remediation activities and laboratory analytical results from confirmation soil samples.

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.

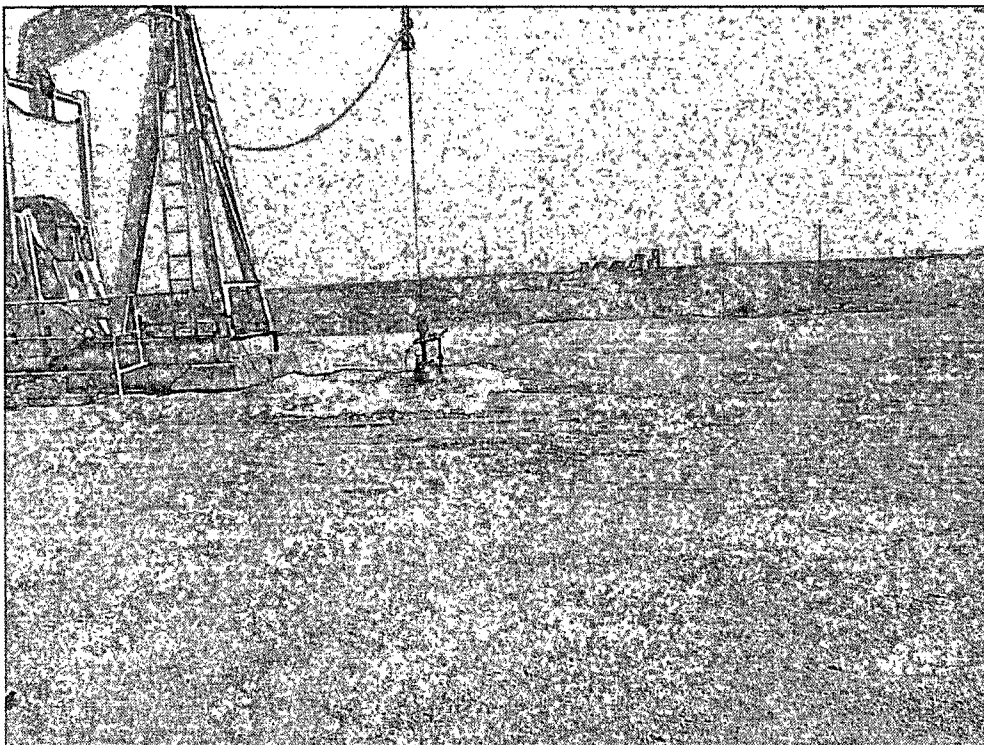
Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Tony Savoie	Approved by District Supervisor:		
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:	
E-mail Address: tasavoie@basspet.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/30/12 Phone: (432) 556-8730			

Appendix B

Photographs



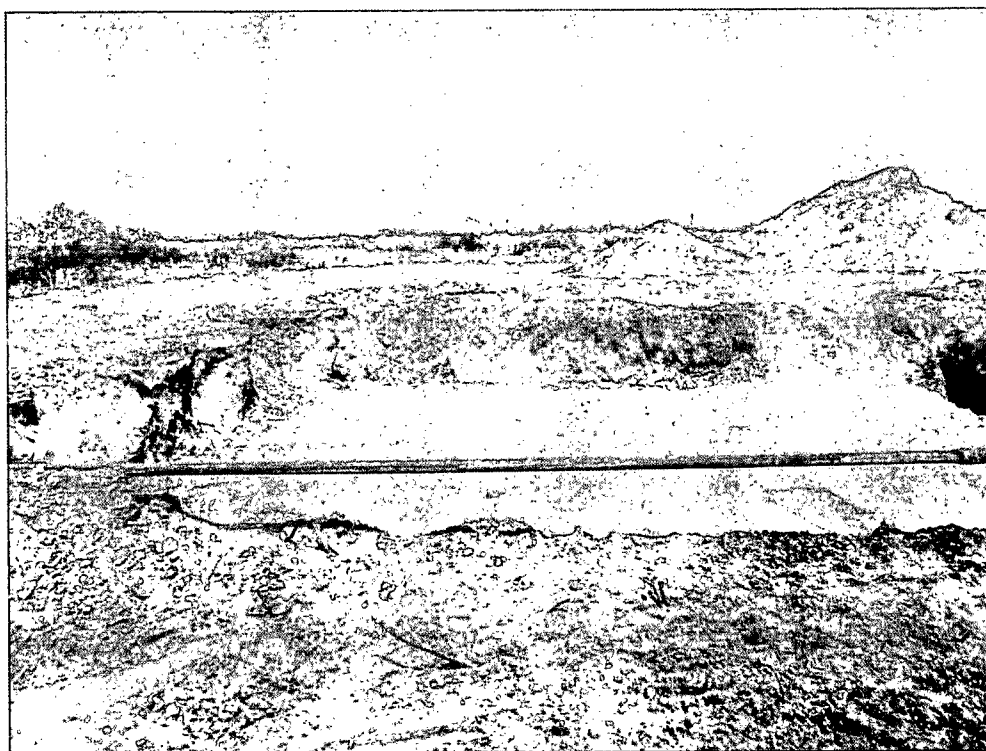
JRU #41 Release Site-Photograph of Initial Release



JRU #41 Release Site-Photograph of Initial Release



JRU #41 Release Site-Photograph of Excavation Activities



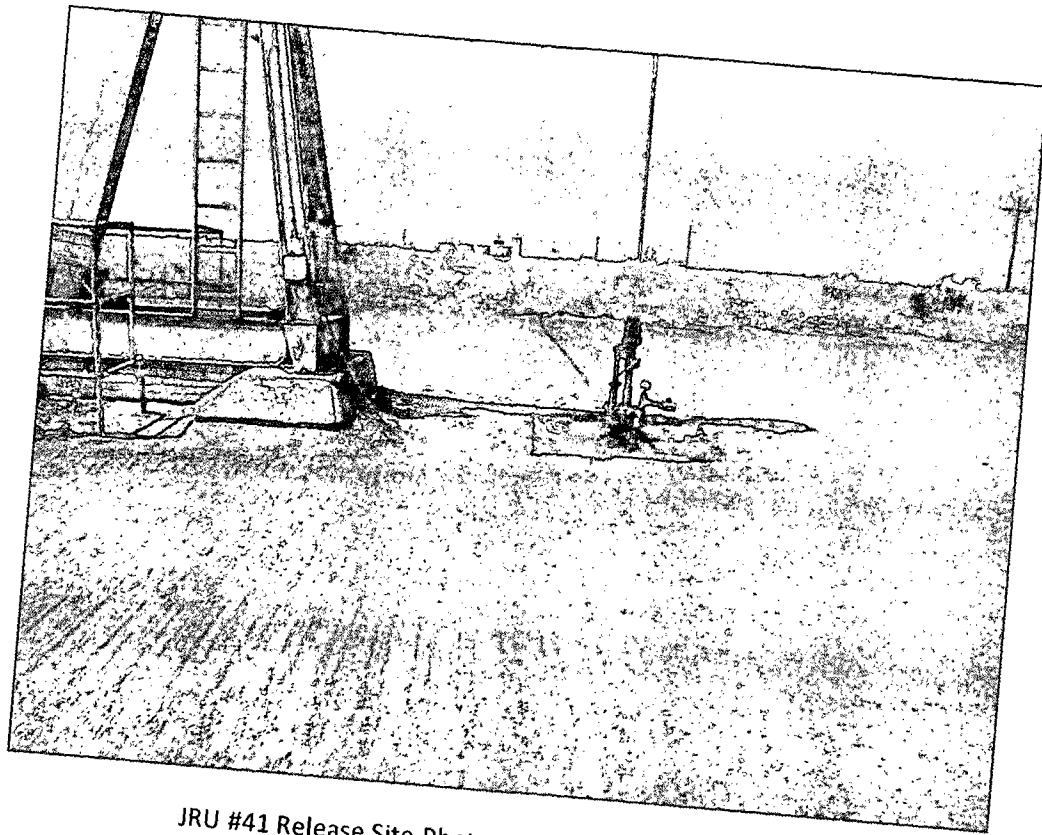
JRU #41 Release Site-Photograph of Installation of 20 mil Liner



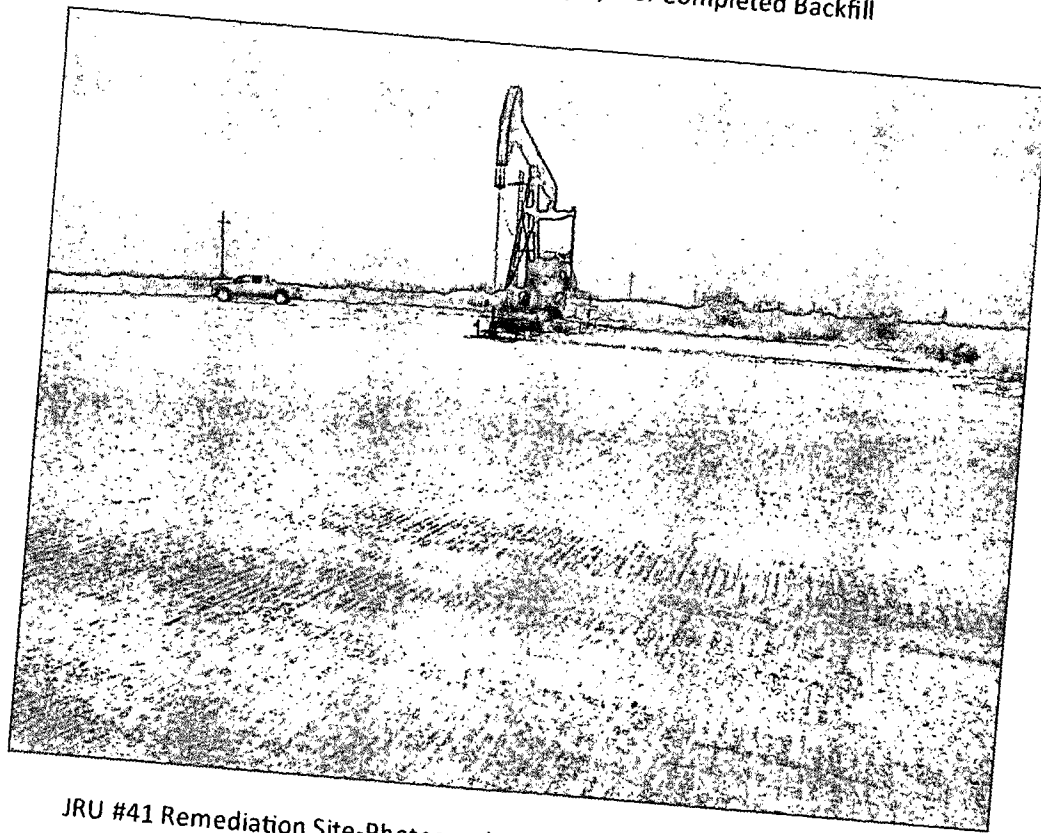
JRU #41 Release Site-Photograph of Backfilling Activities



JRU #41 Release Site-Photograph of Backfilling Activities



JRU #41 Release Site-Photograph of Completed Backfill



JRU #41 Remediation Site-Photograph of Completed Remediation Activities

Appendix C

Laboratory Analytical Reports

May 17, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JRU 41

Enclosed are the results of analyses for samples received by the laboratory on 05/14/12 13:05.

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.

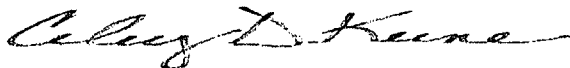
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 05/14/2012
Reported: 05/17/2012
Project Name: JRU 41
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/11/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BACKFILL SAMPLE 1 (H201077-01)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2012	ND	2.20	110	2.00	0.903	
Toluene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	2.01	
Total Xylenes*	<0.150	0.150	05/16/2012	ND	7.09	118	6.00	2.34	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/15/2012	ND	416	104	400	10.9	
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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					

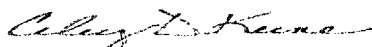
Surrogate: 1-Chlorooctane 98.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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: 05/14/2012
 Reported: 05/17/2012
 Project Name: JRU 41
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BACKFILL SAMPLE 2 (H201077-02)

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2012	ND	2.20	110	2.00	0.903	
Toluene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	2.01	
Total Xylenes*	<0.150	0.150	05/16/2012	ND	7.09	118	6.00	2.34	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2012	ND	416	104	400	10.9	

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	05/15/2012	ND	172	86.0	200	9.82	
DRO >C10-C28	<10.0	10.0	05/15/2012	ND	169	84.7	200	4.37	
EXT DRO >C28-C35	<10.0	10.0	05/15/2012	ND					

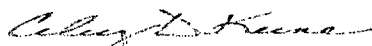
Surrogate: 1-Chlorooctane 92.5 % 55.5-154

Surrogate: 1-Chlorooctadecane 100 % 57.6-158

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

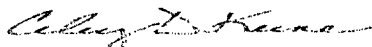
Notes and Definitions

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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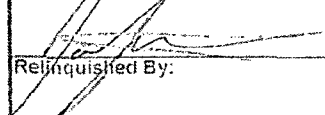
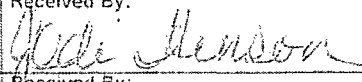
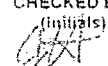
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																				
Project Manager: Ben J. Arguilo				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>																				
Address: P.O. Box 301				Company: BOPCO, LP																								
City: Lovington State: NM Zip: 88260				Attn: Tony Savoie																								
Phone #: (575) 296-2378 Fax #: (575) 396-1429				Address: 522 W. Mermod																								
Project #: Project Owner: BOPCO, LP				City: Carlsbad																								
Project Name: JRM 41				State: NM Zip: 88220																								
Project Location: EDDY NM				Phone #: (432) 556-3730																								
Sampler Name: Jody Walters				Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	GRAB OR (CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME															
H201077																												
-1	Back Fill Sample 1	C 1			X				X			5-11-12	11:30	+	+	+												
-2	Back Fill Sample 2	C 1			X				X			5-11-12	11:40	+	+	+												

PLEASE NOTE: Liability and Damages. Cardinal's liability and claims exclusive remedy for any claim arising out of or related to this contract 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 asserted, waived, 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 and/or out 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: 5/14/12 Time: 1:05	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) Sampler - UPS - Bus - Other:			REMARKS:	
Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			CHECKED BY: (Initials) 	

Please email results to pm@basinenv.com
 & TSavoie@BasinEnv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

May 24, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 41

Enclosed are the results of analyses for samples received by the laboratory on 05/23/12 8:20.

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.

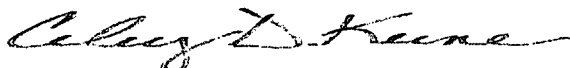
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 05/23/2012
Reported: 05/24/2012
Project Name: JAMES RANCH UNIT 41
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/22/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TRENCH FLOOR 2' SEC. 1 (H201162-01)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	05/23/2012	ND	416	104	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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	<10.0	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	<10.0	10.0	05/23/2012	ND					
Surrogate: 1-Chlorooctane 82.0 % 65.2-140									
Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154									

Sample ID: TRENCH FLOOR 5' SEC. 1 (H201162-02)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/23/2012	ND	416	104	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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	<10.0	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	<10.0	10.0	05/23/2012	ND					
Surrogate: 1-Chlorooctane 78.0 % 65.2-140									
Surrogate: 1-Chlorooctadecane 90.0 % 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:	05/23/2012	Sampling Date:	05/22/2012
Reported:	05/24/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

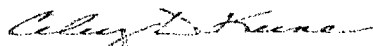
Sample ID: TRENCH FLOOR 10' SEC. 1 (H201162-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	05/23/2012	ND	432	108	400	3.64		
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	05/23/2012	ND	196	98.2	200	12.3		
DRO >C10-C28	<10.0	10.0	05/23/2012	ND	194	97.1	200	12.3		
EXT DRO >C28-C35	<10.0	10.0	05/23/2012	ND						
Surrogate: 1-Chlorooctane	77.0 %	65.2-140								
Surrogate: 1-Chlorooctadecane	86.9 %	63.6-154								

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	05/23/2012	Sampling Date:	05/22/2012
Reported:	05/24/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: TRENCH FLOOR 12' SEC. 1 (H201162-04)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2012	ND	1.98	99.0	2.00	16.3	
Toluene*	<0.050	0.050	05/23/2012	ND	2.06	103	2.00	15.2	
Ethylbenzene*	<0.050	0.050	05/23/2012	ND	2.07	104	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/23/2012	ND	6.41	107	6.00	14.7	

Surrogate: 4-Bromofluorobenzene (P1D) 113 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	05/23/2012	ND	432	108	400	3.64	

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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	<10.0	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	<10.0	10.0	05/23/2012	ND					

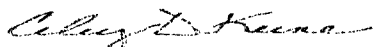
Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 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:	05/23/2012	Sampling Date:	05/22/2012
Reported:	05/24/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH WALL SEC. 1 (H201162-05)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	05/24/2012	ND	432	108	400	3.64	
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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	<10.0	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	<10.0	10.0	05/23/2012	ND					

Surrogate: 1-Chlorooctane 83.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.2 % 63.6-154

Sample ID: NORTH WALL SEC. 1 (H201162-06)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/24/2012	ND	432	108	400	3.64	
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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	<10.0	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	<10.0	10.0	05/23/2012	ND					

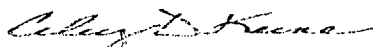
Surrogate: 1-Chlorooctane 83.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.4 % 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:	05/23/2012	Sampling Date:	05/22/2012
Reported:	05/24/2012	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT 41	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST WALL SEC. 1 (H201162-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	05/24/2012	ND	432	108	400	3.64	
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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	260	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	87.3	10.0	05/23/2012	ND					

Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

Sample ID: WEST WALL SEC. 1 (H201162-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/24/2012	ND	432	108	400	3.64	
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	05/23/2012	ND	196	98.2	200	12.3	
DRO >C10-C28	350	10.0	05/23/2012	ND	194	97.1	200	12.3	
EXT DRO >C28-C35	109	10.0	05/23/2012	ND					

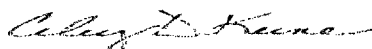
Surrogate: 1-Chlorooctane 86.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

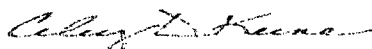
Notes and Definitions

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

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

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST														
Project Manager: Ben J. Arsujo				P.O. #:																		
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. Marmod																		
Project #:		Project Owner: BOPCO, LP		City: Carlsbad																		
Project Name: James Ranch unit 41				State: NM Zip: 88220																		
Project Location: EDDY NM.				Phone #: (575) 556-8730																		
Sampler Name: Jody Walters				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING														
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	BODISM	Chlorides	BTEX	Push				
H201162																						
1	Trench Floor 2' Sec1	G	1			X				X			5-22-12	9:00	X	X		X				
2	Trench Floor 5' Sec1	G	1			X				X			5-22-12	9:20	X	X		X				
3	Trench Floor 10' Sec1	G	1		X					X			5-22-12	9:40	X	X		X				
4	Trench Floor 12' Sec1	G	1		X					X			5-22-12	10:00	X	X	X	X				
5	South wall Sec1	G	1		X					X			5-22-12	10:10	X	V		X				
6	North wall Sec1	G	1		X					X			5-22-12	10:20	X	X		X				
7	EAST wall Sec1	G	1		X					X			5-22-12	10:30	X	X		X				
8	West wall Sec1	G	1		X					X			5-22-12	10:40	X	X		X				

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Relinquished By: <i>[Signature]</i>	Date: 5-23-12	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 0700			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: 5-23-12	Received By: <i>[Signature]</i>	REMARKS:	
Time: 0820				
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		

Please email results to pm@basinenv.com
& TARavoie@BassPet.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

May 25, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: JAMES RANCH UNIT 41

Enclosed are the results of analyses for samples received by the laboratory on 05/23/12 16:20.

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.

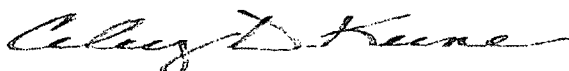
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 05/23/2012
Reported: 05/25/2012
Project Name: JAMES RANCH UNIT 41
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/23/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N WALL 1' SEC 3 (H201173-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/24/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					

Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

Sample ID: S WALL 1' SEC 3 (H201173-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/24/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					


Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 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: 05/23/2012
Reported: 05/25/2012
Project Name: JAMES RANCH UNIT 41
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/23/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: FLOOR 1 1/2' SEC 3 (H201173-03)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/24/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					
<hr/>									
Surrogate: 1-Chlorooctane	86.2 %	65.2-140							
Surrogate: 1-Chlorooctadecane	90.7 %	63.6-154							

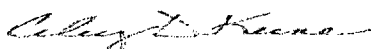
Sample ID: W WALL 1' SEC 3 (H201173-04)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/24/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					
<hr/>									
Surrogate: 1-Chlorooctane	83.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	92.9 %	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: 05/23/2012
 Reported: 05/25/2012
 Project Name: JAMES RANCH UNIT 41
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/23/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E WALL 1' SEC 2 (H201173-05)

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/25/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.6 % 63.6-154

Sample ID: S WALL 1' SEC 2 (H201173-06)

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/25/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					

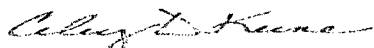
Surrogate: 1-Chlorooctane 82.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.4 % 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: 05/23/2012
 Reported: 05/25/2012
 Project Name: JAMES RANCH UNIT 41
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/23/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: N WALL 1' SEC 2 (H201173-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/25/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					

Surrogate: 1-Chlorooctane 82.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.9 % 63.6-154

Sample ID: FLOOR 11/2' SEC 2 (H201173-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/25/2012	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	05/24/2012	ND	176	88.1	200	1.55	
DRO >C10-C28	<10.0	10.0	05/24/2012	ND	176	88.2	200	3.97	
EXT DRO >C28-C35	<10.0	10.0	05/24/2012	ND					

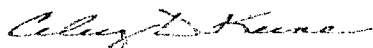
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

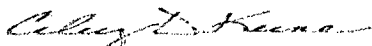
Notes and Definitions

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

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

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† Cardinal cannot accept verbal changes. Please fax written changes to 505,393-2476.