

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**BOPCO, LP
HASTA LA VISTA 1 DI FED. COM #002Y FLOW LINE
API 30-015-42705
Eddy County, New Mexico
Unit Letter "B" (NW/NE), Section 6, Township 20 South, Range 31 East
Latitude 32.60684° North, Longitude 103.90414° West
NMOCD Reference #2RP-2816**

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**

March 2015

**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 & Site Closure Request* for the release site known as Hasta La Vista 1 DI Fed. COM #002Y Flow Line (Hasta La Vista 1 DI Flow Line). The legal description of the release site is Unit Letter "B" (NW/NE), Section 6, Township 20 South, Range 31 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.60684° North latitude and 103.90414° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On February 12, 2015, BOPCO discovered a release had occurred on a flow line approximately one thousand, seven hundred sixty feet (1,760') southeast of the Hasta La Vista 1 DI Fed. COM #002Y well. The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office on February 16, 2015. The "Release Notification and Corrective Action" (Form C-141) indicated the failure of a hammer union resulted in the release of approximately three barrels (3 bbls) of crude oil and ten barrels (10 bbls) of produced water. During initial response activities, the hammer union was repaired, and a vacuum truck was utilized to recover approximately one barrel (1 bbl) of crude oil and one barrel (1 bbl) of produced water. The release affected approximately one thousand, four hundred square feet (1,400 ft²) of pasture. Heavily saturated soil was excavated by hand and stockpiled on impermeable plastic, pending final disposition.

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 6, Township 20 South, Range 31 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered less than fifty feet (<50') below ground surface (bgs). Based on the NMOCD ranking system, twenty (20) 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 Hasta La Vista 1 DI Flow Line release site has an initial ranking score of twenty (20) points. The soil remediation levels for a site with a ranking score of greater than (>19) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) – 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) – 100 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 February 13, 2015, remediation activities commenced at the release site. Heavily impacted soil was hand-excavated by a third-party contractor and stockpiled on-site, pending final disposition.

On February 18, 2015, Basin Environmental assumed remediation responsibilities at the site. The floor and sidewalls of the excavation were advanced until chloride field-test results and olfactory/visual senses suggested contaminants of concern were below the recommended remediation action levels (RRALs) established for the site by the NMOCD. Excavated soil was stockpiled on-site, pending final disposition.

Seven (7) soil samples (Floor #1 @ 2', Floor #3 @ 1', Floor #4 @ 1', N. Wall @ 1', E. Wall @ 2', S. Wall @ 1', and W. Wall @ 2') were collected from the floor and sidewalls of the excavation and submitted to Cardinal Laboratories, Inc., in Hobbs, New Mexico, for analysis of chloride concentrations using Environmental Protection Agency (EPA) Method 4500 Cl-B. Sample Floor #1 @ 2' was also analyzed for concentrations of TPH and BTEX using EPA Methods SW-846 8015M and SW-846 8021b, respectively. A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory method detection limit (MDL) in samples Floor #4 @ 1', N. Wall @ 1', and S. Wall @ 1' to 128 mg/kg in samples Floor #3 @ 1' and E. Wall @ 2'. TPH and BTEX constituent concentrations in sample Floor #1 @ 2' were less than the appropriate laboratory MDL.

On March 4, 2015, based on laboratory analytical results, the excavation was backfilled with locally acquired, non-impacted soil, compacted, and contoured to fit the surrounding topography. Final dimensions of the excavation were approximately sixty-two feet (62') in length, twenty-eight feet (28') in width, and one (1) to two feet (2') in depth. In addition, approximately forty cubic yards (40 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.

The release site will be seeded with a BLM-approved seed mix at a time conducive to germination.

4.0 QUALITY ASSURANCE/QUALITY CONTROL (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

4.0 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 analytical reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floor and sidewalls of the Hasta La Vista 1 DI Flow Line excavation were analyzed by an NMOCD-approved laboratory, and concentrations of BTEX, TPH and chloride were less than the RRALs established for the site by the NMOCD. Based on these laboratory analytical results, 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 Hasta La Vista 1 DI Flow Line release site.

6.0 LIMITATIONS

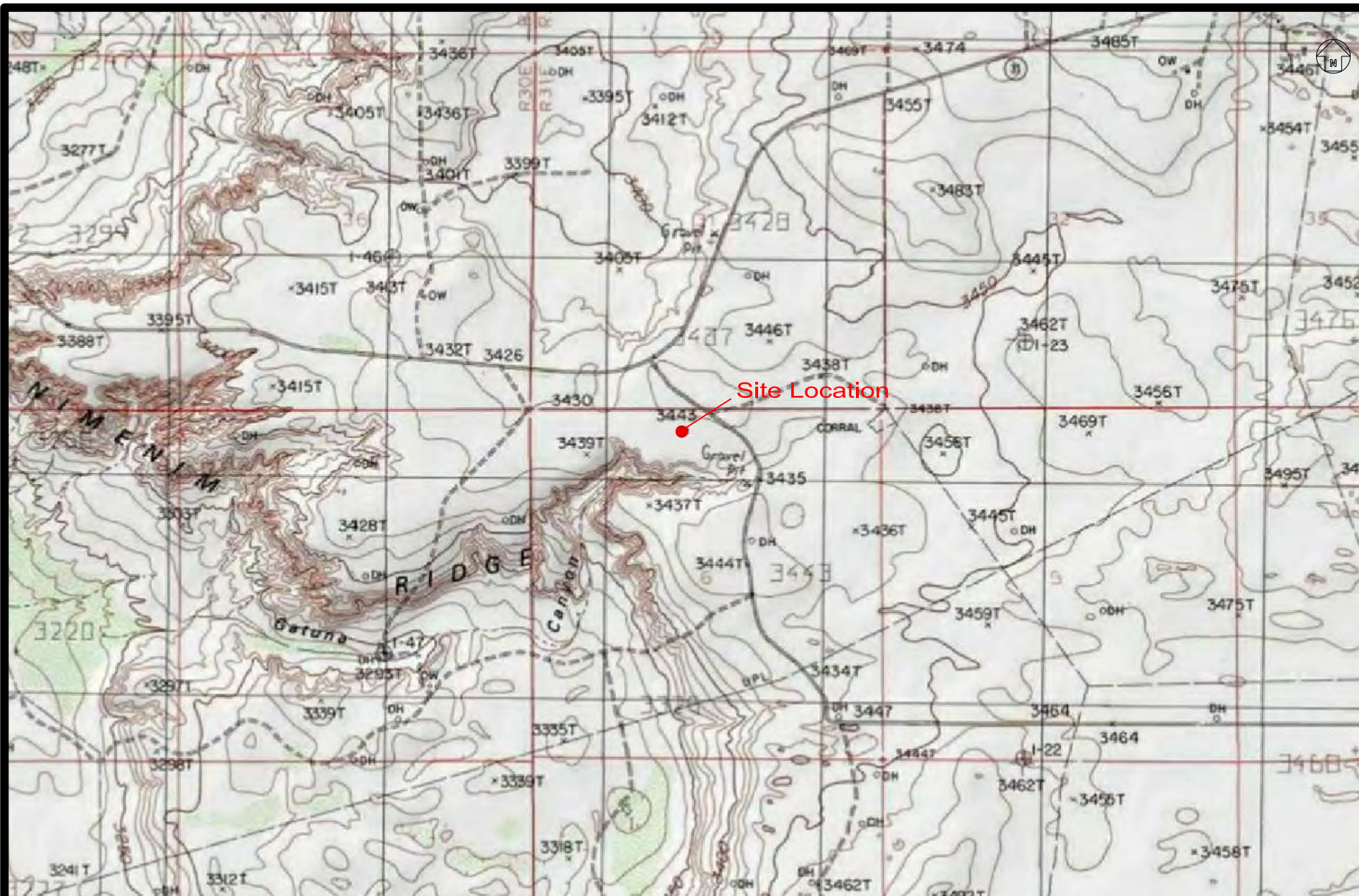
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements 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
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



2000 1000 0 1000 2000
 Distance in Feet

Figure 1
 Site Location Map
 BOPCO, LP
 Hasta La Vista 1 DI Fed. COM #002Y FLOW Line
 Eddy County, New Mexico
 NMOCD Ref # 2RP-2861

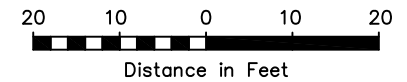
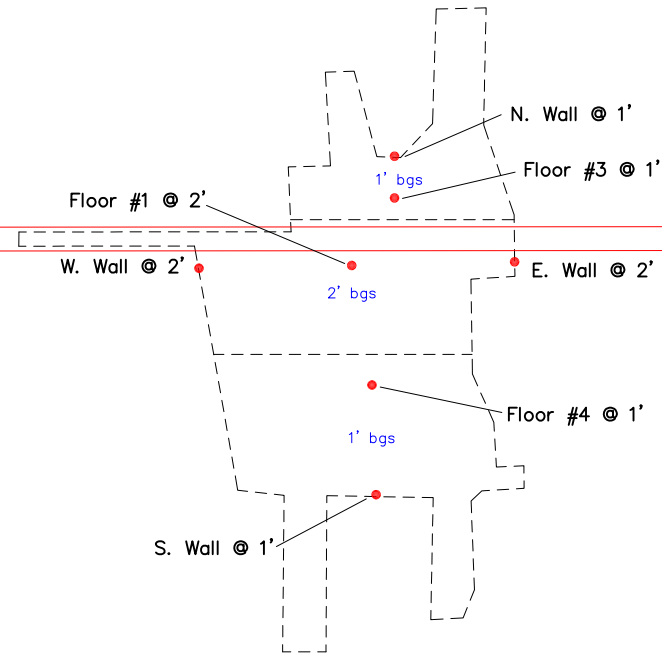
Basin Environmental Service Technologies

Prep By: JWL

Checked By: BJA

March 2, 2015

Scale 1"=2000'



Legend:

- Excavation Extent
- Sample Location
- Steel Flow Lines

Figure 2
Site & Sample Location Map
BOPCO, LP
Hasta La Vista 1 DI Fed. COM #002Y Flow Line
Eddy County, New Mexico
NMOCD Ref # 2RP-2861

Basin Environmental Services

Prep By: JWL	Checked By: BJA
February 23, 2015	Scale 1"=20'

Tables

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

BOPCO, LP
HASTA LA VISTA 1 DI FED. COM. #002Y FLOW LINE
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2816

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 CI-B
				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)		CHLORIDE (mg/Kg)
Floor #1 @ 2'	2'	2/18/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
Floor #3 @ 1'	1'	2/18/2015	In-Situ	-	-	-	-	-	-	-	-	-	128
Floor #4 @ 1'	1'	2/18/2015	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
N. Wall @ 1'	1'	2/18/2015	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
E. Wall @ 2'	2'	2/18/2015	In-Situ	-	-	-	-	-	-	-	-	-	128
S. Wall @ 1'	1'	2/18/2015	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
W. Wall @ 2'	2'	2/18/2015	In-Situ	-	-	-	-	-	-	-	-	-	32.0
NMOCD Criteria				10				50				100	250

- = 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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

FEB 16 2015

Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. #215099 - Cimarex Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329
Facility Name: Hasta La Vista I DI Fed. COM #002Y. The Facility Type: Exploration and Production
spill is 1760 ft. SE of the well pad.

Surface Owner: Federal Mineral Owner: Federal API No. 30-015-42705

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	6	20S	31E					Eddy

Latitude N 32.60684 Longitude W 103.90414

NATURE OF RELEASE

Type of Release: Crude oil and produced water	Volume of Release: 3 bbls crude oil and 10 bbls produced water	Volume Recovered: 1 bbl crude oil and 1 bbl produced water
Source of Release: 27/8" flow line	Date and Hour of Occurrence: 2/12/15 time unknown	Date and Hour of Discovery: 2/12/15 at approximately 2:00 p.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.	

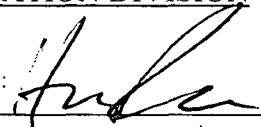
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A hammer union became loose due to vibration and movement on the line. The union was re-tightened and the line was secured.

Describe Area Affected and Cleanup Action Taken.*

The spill impacted approximately 1400 sq.ft. of pasture, all of the free product was recovered with a vacuum truck. On 2/13/15, crews started removing the saturated soil and placing it on plastic, Basin Environmental will oversee the soil removal and conduct the final remediation. BOPCO will submit a Final C-141 and closure report upon completion.

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: Tony Savoie		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist: 	
Title: Waste Management and Remediation Specialist		Approval Date: 2/17/15	Expiration Date: N/A
E-mail Address: tasavoie@basspet.com		Conditions of Approval:	
Date: 2/16/15 Phone: 432-556-8730		Remediation per O.C.D. Rules & Guidelines	
		SUBMIT REMEDIATION PROPOSAL NO	
		LATER THAN: 3/17/15	

* Attach Additional Sheets If Necessary

28P-2816

Appendix B

Photographs



Hasta La Vista 1 DI Federal COM #002Y Flow Line - Release Site



Hasta La Vista 1 DI Federal COM #002Y Flow Line - Release Site



Hasta La Vista 1 DI Federal COM #002Y Flow Line - Excavation



Hasta La Vista 1 DI Federal COM #002Y Flow Line - Excavation



Hasta La Vista 1 DI Federal COM #002Y Flow Line – Backfilled Excavation

Appendix C

Laboratory Analytical Reports

February 23, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HASTO LA VISTA 4 DI FEDERAL COM 002R

Enclosed are the results of analyses for samples received by the laboratory on 02/19/15 10:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/19/2015	Sampling Date:	02/18/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	HASTO LA VISTA 4 DI FEDERAL COM 00.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #1 @ 2' (H500479-01)

BTX 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	02/21/2015	ND	1.85	92.3	2.00	5.10	
Toluene*	<0.050	0.050	02/21/2015	ND	1.86	92.9	2.00	5.32	
Ethylbenzene*	<0.050	0.050	02/21/2015	ND	1.84	92.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	02/21/2015	ND	5.45	90.8	6.00	4.79	
Total BTX	<0.300	0.300	02/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/20/2015	ND	400	100	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	02/19/2015	ND	194	97.1	200	0.244	
DRO >C10-C28	<10.0	10.0	02/19/2015	ND	192	96.2	200	1.14	
EXT DRO >C28-C35	<10.0	10.0	02/19/2015	ND					

Surrogate: 1-Chlorooctane 85.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/19/2015	Sampling Date:	02/18/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	HASTO LA VISTA 4 DI FEDERAL COM 00.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #3 @ 1' (H500479-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/20/2015	ND	400	100	400	0.00		

Sample ID: FLOOR #4 @ 1' (H500479-03)

Chloride, SM4500CI-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	02/20/2015	ND	400	100	400	0.00	

Sample ID: NORTH WALL @ 1' (H500479-04)

Chloride, SM4500CI-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	02/20/2015	ND	400	100	400	0.00		

Sample ID: EAST WALL @ 2' (H500479-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/20/2015	ND	400	100	400	0.00	

Sample ID: SOUTH WALL @ 1' (H500479-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/20/2015	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/19/2015	Sampling Date:	02/18/2015
Reported:	02/23/2015	Sampling Type:	Soil
Project Name:	HASTO LA VISTA 4 DI FEDERAL COM 00	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WEST WALL @ 2' (H500479-07)**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	02/20/2015	ND	400	100	400	0.00	

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*=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

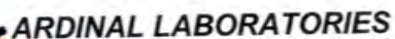
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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