Basin Environmental Service Technologies, LLC

3100 Plains Highway P. O. Box 301 Lovington, New Mexico 88260

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Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY AND

SITE CLOSURE REQUEST

RECEIVED

By OCD; Dr. Oberding at 1:37 pm, Mar 31, 2015

BOPCO, LP

HAT MESA 32 STATE #1 FLOW LINE

API 30-025-34704

Lea County, New Mexico

Unit Letter "B" (NW/NE), Section 31, Township 20 South, Range 33 East Latitude 32.535028° North, Longitude 103.700994° West

NMOCD Reference #1RP- 3038

Prepared For:

APPROVED

By OCD; Dr. Oberding at 1:37 pm, Mar 31, 2015

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 2014

Joel W. Lowry
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Request* for the release site known as Hat Mesa 32 State #1 Flow Line. The legal description of the release site is Unit Letter "B" (NW/NE), Section 31, Township 20 South, Range 33 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.535028° North latitude and 103.700994° 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). A "Site Location Map" is provided as Figure 1.

On May 18, 2014, BOPCO discovered a release had occurred on the Hat Mesa 32 State #1 Flow Line near the Hate Mesa 31-32 Tank Battery. The initial form C-141 indicated failure of a section of 3" poly-pipe flow line resulted in the release of approximately twenty-five barrels (25 bbls) of crude oil. The release pooled in two (2) areas measuring a total of approximately 1,200 ft², just west of the tank battery in the adjacent pasture. The spill also sprayed an area measuring approximately 6,750 ft², where the soil had about one-half inch (½") of saturation and the vegetation was coated. The release also affected an area measuring approximately 4,500 ft², where the soil and vegetation were moderately misted and an area measuring approximately 5,400 ft², where the vegetation was only lightly misted. During initial response activities, a vacuum truck was used to recover approximately fifteen barrels (15 bbls) of free-standing fluid from the pooling areas and a pressure washer was used to wash down the affected vegetation. 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 31, Township 20 South, Range 33 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and seventy feet (70') below ground surface (bgs). Based on the NMOCD ranking system, ten (10) 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 (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 one thousand (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 Hat Mesa 32 State #1 Flow Line release site has an initial ranking score of ten (10) points. The soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene 10 ppm
- Benzene, Toluene, Ethylbenzene and Xylene (BTEX) 50 ppm
- Total Petroleum Hydrocarbons (TPH) 1,000 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 and have been set at 500 ppm for this release site.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On May 21, 2014, Basin began remediation activities at the release site. Affected vegetation and soil outside the primary pooling areas were treated with a Micro-Blaze® solution in an effort to enhance bioremediation and natural attenuation of hydrocarbon-impacted soils and vegetation. An excavation was advanced in the areas characterized by the primary pooling areas. The floor and sidewalls of the excavation were advanced until field tests suggested concentrations of BTEX, TPH and chloride were below NMOCD regulatory standards. Excavated soil was stockpiled onsite, pending final disposition.

On May 23, 2014, eight (8) confirmation soil samples (West Wall #1, West Wall #2, South Wall #1, North Wall #1, Floor #1 @ 4', Floor #2 @ 4', East Wall #1 and East Wall #2) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory method detection limit (MDL) in each of the submitted soil samples. Chloride concentrations ranged from less than the laboratory MDL in soil sample East Wall #2 to 288 ppm for soil sample East Wall #1. A summary of "Concentrations of Benzene, BTEX, TPH and Chloride in Soil" is provided in Table 1. A "Site and Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C. Excavation activities continued toward the south.

On May 27, 2014, two (2) confirmation soil samples (South Wall #2 and South Wall #3) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 48.0 ppm in soil sample South Wall #3 to 64.0 ppm for soil sample South Wall #2.

On May 29, 2014, four (4) confirmation soil samples (MA-50' @ Surface, MA-50' @ 6", MA-100' @ Surface and MA-150' @ Surface) were collected from the misted area to determine if the Micro-Blaze® treatment had been effective in treating the surface contamination. Soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the laboratory MDL in each of the submitted soil samples. TPH concentrations ranged from 10.1 ppm in soil sample MA-50' @ 6" to 1,559 ppm in soil sample MA-50' @ Surface. Chloride concentrations ranged from less than the laboratory MDL in soil sample MA-150' @ Surface to 208 ppm for soil sample MA-50' Surface. Laboratory analytical results and field observations suggest the Micro-Blaze® treatment was effective in enhancing bioremediation and natural attenuation of hydrocarbonimpacted soils and vegetation.

Between May 27 and 28, 2014, approximately two hundred and forty cubic yards (240 yd³) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal.

The final dimensions of the primary excavation were approximately twelve (12) to sixty (60') in width, eighty feet (80') in length and four feet (4') in depth. Upon receiving laboratory analytical data from confirmation soil samples, the excavated area was backfilled with locally purchased, non-impacted material. Following backfilling, areas affected by the remediation activities were contoured to match the surrounding topography. Areas within the affected pasture will be reseeded in accordance with the NMSLO at a time more conducive to germination.

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

Confirmation soil samples collected from the floor and sidewalls of the Hat Mesa 32 State #1 Flow Line excavation were analyzed by an NMOCD-approved laboratory, which determined concentrations of BTEX, TPH and chloride were below NMOCD Regulatory Standards in each of the submitted soil samples. Soil samples collected from the affected pasture suggests the Micro-Blaze® treatment was effective in enhancing bioremediation and natural attenuation of hydrocarbon impacted soils and vegetation. Based on laboratory analytical results and the treatment of the affected misted area with Micro-Blaze®, Basin recommends BOPCO provide the NMOCD Hobbs District Office and the NMSLO a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the Hat Mesa 32 State #1 Flow Line release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and 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: Tomas Oberding

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 4)

1220 South St. Francis Drive

Santa Fe, NM 87505

Copy 2: Andrew Kraemer

New Mexico State Land Office

602 N. Canal, Suite B.

Carlsbad, New Mexico 88220

Copy 3: Tony Savoie

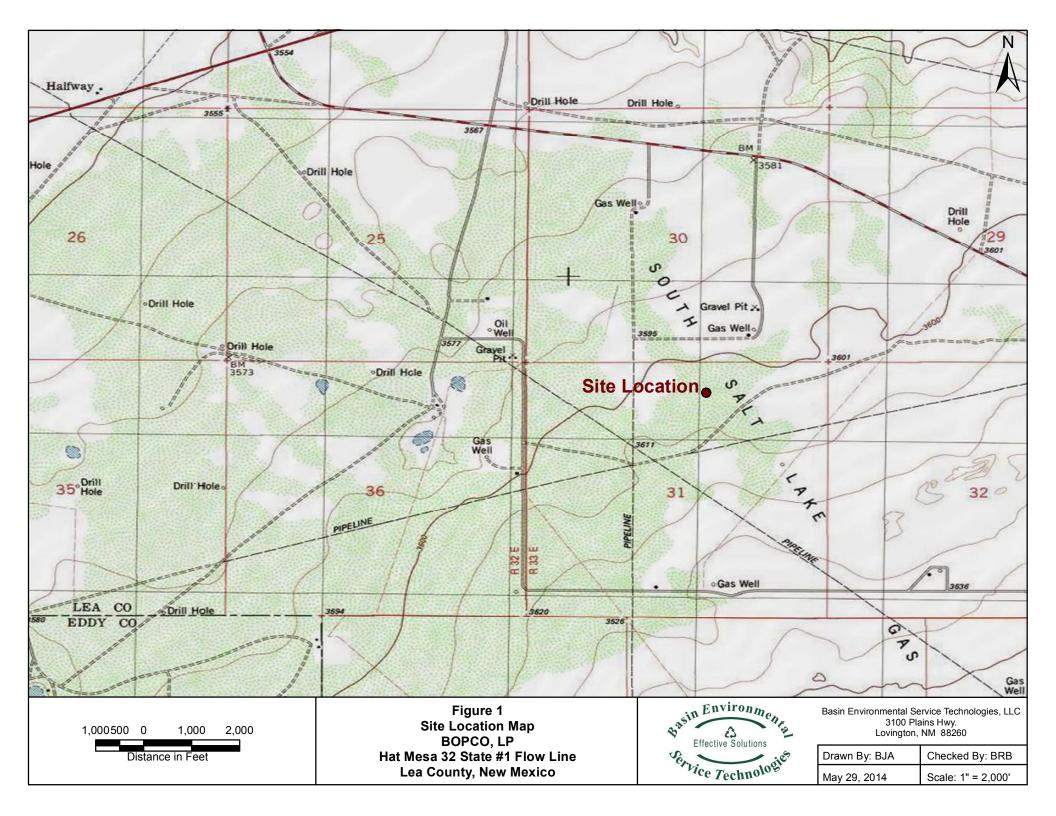
BOPCO, LP

522 W. Mermod, Suite 704 Carlsbad, NM 88220

Copy 4: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260



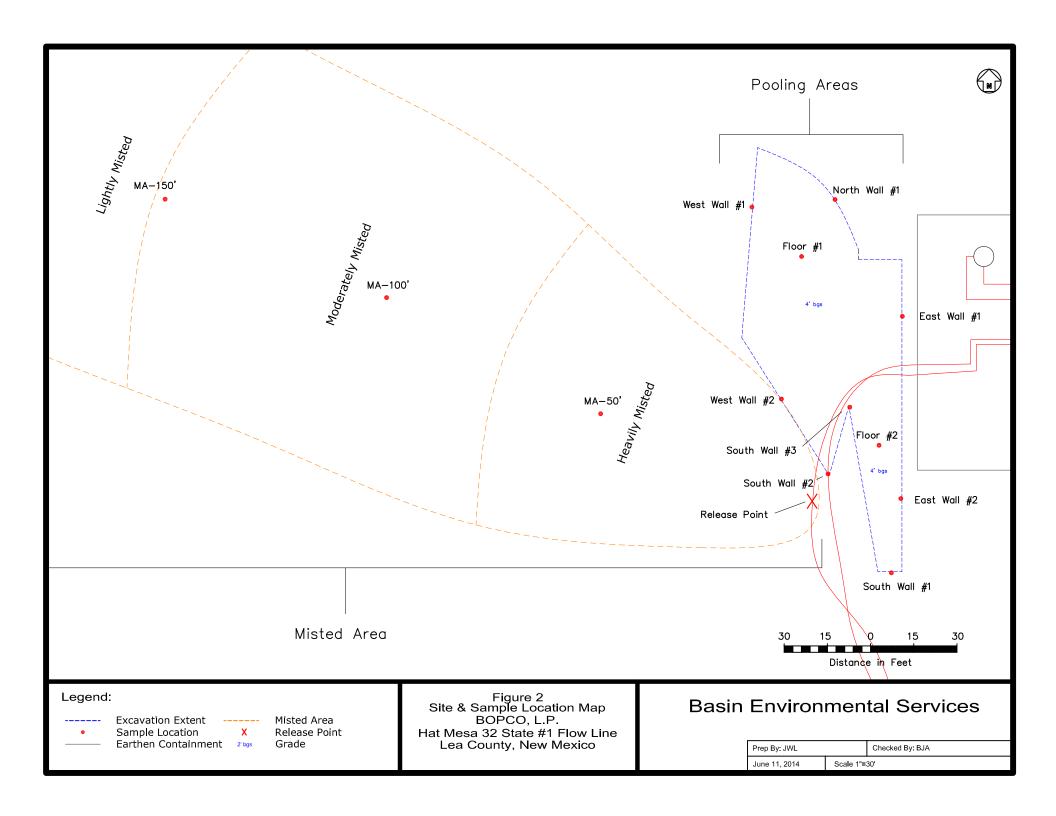


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP HAT MESA 32 STATE #1 FLOWLINE EDDY COUNTY, NEW MEXICO

	0.44401.5				METHOD: E	PA SW 846	-8021B, 503	0	MET	HOD: 80	15M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	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)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
West Wall #1	2'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	32.0
South Wall #1	2'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	144
West Wall #2	2'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	176
North Wall #1	2'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	64.0
Floor #1 @ 4'	4'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	48.0
Floor #2 @ 4'	4'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	176
East Wall #1	2'	5/23/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	288
East Wall #2	2'	5/23/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
South Wall #2	2'	5/27/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
South Wall #3	2'	5/27/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
MA-50' @ Surface	Surface	5/29/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,060	499	1,559	208
MA-50' @ 6"	6"	5/29/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	10.1	<10.0	10.1	32.0
MA-100' @ Surface	Surface	5/29/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	127	76.7	203	16.0
MA-150' @ Surface	Surface	5/29/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.8	22.0	52.8	<16.0
NMOCD Criteria				10				50				1,000	500

^{- =} Not analyzed.

<u>District I</u> 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

* Attach Additional Sheets If Necessary

HOBBS OCD State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

MAY 1 9 2014Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Santa Fe, NM 87505

			Rele	ease Notifica	atior	and Co	rrective A	ction					
						OPERA	ГOR		al Report		Final Report		
Name of Co						Contact: Tony Savoie							
				oad, N.M. 88220		Telephone No. 575-887-7329							
				flow line spill is 1-32 Tank Btry.		Facility Typ	e: Exploration a	and Production					
Surface Ow	ner: State	of N.M.		Mineral Ov	vner:	State of N.M	1.	API N	. 30-025-3	4704			
				LOCA	TIOI	N OF REI	LEASE						
Unit Letter B	, , , ,						Feet from the	East/West Line	County: Lea				
Latitude N 32.535028 Longitude W 103.700994 NATURE OF RELEASE													
Type of Rele	ace: Crude	oil		IMI			Release: 25 Bbls	Volume	Recovered:	15 Rhle			
		oly flow flow-	line				lour of Occurrence		Hour of Dis				
Bource of Acc	reasers pe	// // // // // // // // // // // // //					ne unknown		t 11:00 a.m.		•		
Was Immedia	ate Notice (Yes [] No ☐ Not Rec	quired	If YES, To	Whom? Maxey	Brown "NMOCD'					
By Whom? T							Iour: 5/18/14 at 1						
Was a Water	course Read	ched?	Yes 2	No No		If YES, Volume Impacting the Watercourse.							
	ise of Probl	em and Reme	dial Actio	n Taken.* being closed at the v	well te	st header, the	high pressure sw	itch at the wellhea	d failed to sh	nut dow	n the well.		
The release parea of approapproximatel vegetation we vegetation we	ouddled up it in a simately 6, y 4,500 sq. as lightly mith soap and	750 sq.ft. when the state of th	west of the re the soit oil and ve an truck wa	ken.* te tank battery in the land about ½" of segetation was mode as on-site recovering to the NMOCI	aturation rately in g the fi	on and the vermisted. The reference standing f	getation was coate elease also misted luid and a crew w	ed. The release als I and area of approvas dispatched to v	o misted an a ximately 5.4	area of 100 sq.f	ft. where the		
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.											ndanger f liability ıman health		
					5		OIL CON	SERVATION	DIVISION	NC			
Signature:	e: Tony Sav	yoie 20	lucie			Approved by	Environmental S	pecialist:					
		nt and Remed	iation Spe	cialist		Approval Date: Expiration Date:							
E-mail Addre				± .		Conditions o			Attached	i []			
Data: 5/10/1				Dhana 422 556 9	720								



Photograph of the initial release and pooling area at the Hat Mesa 32 State #1 Flow Line Release Site.



Photograph of the initial release and pooling area at the Hat Mesa 32 State #1 Flow Line Release Site.



Photograph of the initial release and heavily misted area at the Hat Mesa 32 State #1 Flow Line Release Site.



Photograph of the initial release and lightly misted area at the Hat Mesa 32 State #1 Flow Line Release Site.



Photograph of the excavated pooling areas at the Hat Mesa 32 State #1 Flow Line Release Site.



Photograph of the excavated pooling areas at the Hat Mesa 32 State #1 Flow Line Release Site.



Photograph of the excavated pooling areas at the Hat Mesa 32 State #1 Flow Line Release Site.



 $Photograph\ of\ the\ heavily\ misted\ area\ at\ the\ Hat\ Mesa\ 32\ State\ \#1\ Flow\ Line\ Release\ Site\ after\ Micro-Blaze\ ^{\circ}treatment.$



Photograph of the Hat Mesa 32 State #1 Flow Line Release Site after remediation activities.



Photograph of the Hat Mesa 32 State #1 Flow Line Release Site after remediation activities.



June 10, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA 32 STATE #1 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/23/14 16:07.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: WEST WALL #1 (H401598-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/09/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/09/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/09/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/09/2014	ND					
Surrogate: Dibromofluoromethane	97.5	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.5	% 65.7-14	1						
Chloride, SM4500Cl-B	14500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/29/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/10/2014	ND	204	102	200	5.28	
DRO >C10-C28	<10.0	10.0	06/10/2014	ND	215	107	200	7.85	
EXT DRO >C28-C35	<10.0	10.0	06/10/2014	ND					
Surrogate: 1-Chlorooctane	79.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.1	% 63.6-15	4						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SOUTH WALL #1 (H401598-02)

BTEX 8260B	mg/kg		Analyzed By: ms						I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/09/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/09/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/09/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/09/2014	ND					
Surrogate: Dibromofluoromethane	102	% 61.3-14	2						
Surrogate: Toluene-d8	94.3	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	94.5	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/29/2014	ND	400	100	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	06/10/2014	ND	204	102	200	5.28	
DRO >C10-C28	<10.0	10.0	06/10/2014	ND	215	107	200	7.85	
EXT DRO >C28-C35	<10.0	10.0	06/10/2014	ND					
Surrogate: 1-Chlorooctane	83.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.5	% 63.6-15	4						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: WEST WALL #2 (H401598-03)

mg/kg		Analyzed By: ms						I-02	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25		
<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62		
<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26		
<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16		
<0.300	0.300	06/10/2014	ND						
98.2	% 61.3-14	2							
103 9	% 71.3-12	9							
96.0	% 65.7-14	1							
mg/	/kg	Analyze	d By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
176	16.0	05/29/2014	ND	400	100	400	3.92		
mg/	/kg	Analyzed By: MS							
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<10.0	10.0	06/10/2014	ND	204	102	200	5.28		
<10.0	10.0	06/10/2014	ND	215	107	200	7.85		
<10.0	10.0	06/10/2014	ND						
82.9	% 65.2-14	0							
94.7	% 63.6-15	4							
	<0.050 <0.050 <0.050 <0.050 <0.150 <0.300 98.2 1033 96.0 mg/ Result 176 mg/ Result <10.0 <10.0 <82.9	<pre><0.050</pre>	<0.050	<0.050	<0.050	<0.050	Country Coun	<0.050	

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Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: NORTH WALL #1 (H401598-04)

0.461 0.392 0.418 1.22	% Recovery 115 97.9 104 101	True Value QC 0.400 0.400 0.400 1.20	RPD 5.25 3.62 3.26 2.16	Qualifier
0.392 0.418	97.9 104	0.400 0.400	3.62 3.26	
0.418	104	0.400	3.26	
1.22	101	1.20	2.16	
ank BS	% Recovery	True Value QC	RPD	Qualifier
400	100	400	3.92	
ank BS	% Recovery	True Value QC	RPD	Qualifier
204	102	200	5.28	
215	107	200	7.85	
	400 ank BS 204	400 100 ank BS % Recovery 204 102	400 100 400 ank BS % Recovery True Value QC 204 102 200	400 100 400 3.92 ank BS % Recovery True Value QC RPD 204 102 200 5.28

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Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: EDDY COUNTY, NM

Sample ID: FLOOR #1 @ 4' (H401598-05)

RTFY 8260R

BTEX 8260B	mg/kg		Analyze	Analyzed By: ms					1-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25		
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62		
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26		
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16		
Total BTEX	<0.300	0.300	06/10/2014	ND						
Surrogate: Dibromofluoromethane	90.4	% 61.3-14	22							
Surrogate: Toluene-d8	104	% 71.3-12	9							
Surrogate: 4-Bromofluorobenzene	86.3	% 65.7-14	1							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/29/2014	ND	400	100	400	3.92		
TPH 8015M	mg/kg		Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/28/2014	ND	192	96.2	200	1.06		
DRO >C10-C28	<10.0	10.0	05/28/2014	ND	206	103	200	4.66		
EXT DRO >C28-C35	<10.0	10.0	05/28/2014	ND						
Surrogate: 1-Chlorooctane	116	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	113	% 63.6-15	4							

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Celey D. Keine

T_02



Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: Sampling Type: Soil 06/10/2014

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: FLOOR #2 @ 4' (H401598-06)

BTEX 8260B	mg,	'kg	Analyze	d By: ms					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/10/2014	ND					
Surrogate: Dibromofluoromethane	97.9	% 61.3-14	2						
Surrogate: Toluene-d8	93.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/29/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2014	ND	192	96.2	200	1.06	
DRO >C10-C28	<10.0	10.0	05/28/2014	ND	206	103	200	4.66	
EXT DRO >C28-C35	<10.0	10.0	05/28/2014	ND					
Surrogate: 1-Chlorooctane	119 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

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Celey D. Keine



Basin Environmental Service JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: EAST WALL #1 (H401598-07)

I-02		
RPD	Qualifier	
5.25		
3.62		
3.26		
2.16		
RPD	Qualifier	
3.92		
RPD	Qualifier	
5.28		
7.85		

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Basin Environmental Service JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/23/2014 Sampling Date: 05/23/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: EAST WALL #2 (H401598-08)

BTEX 8260B	mg/kg		Analyze	d By: ms					I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25		
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62		
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26		
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16		
Total BTEX	<0.300	0.300	06/10/2014	ND						
Surrogate: Dibromofluoromethane	97.3	% 61.3-14	2							
Surrogate: Toluene-d8	107	% 71.3-12	9							
Surrogate: 4-Bromofluorobenzene	98.5	% 65.7-14	1							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/29/2014	ND	400	100	400	3.92		
TPH 8015M	mg	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/10/2014	ND	204	102	200	5.28		
DRO >C10-C28	<10.0	10.0	06/10/2014	ND	215	107	200	7.85		
EXT DRO >C28-C35	<10.0	10.0	06/10/2014	ND						
Surrogate: 1-Chlorooctane	79.3	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	98.7	% 63.6-15	4							

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

I-02 This result was analyzed outside of the EPA recommended holding time.

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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ARDINAL LABORATORIES

(575) 393-2326	01 East Marland, I
	arland,
FAX (575) 393-2476	, Hobbs,
5) 393	Z
3-2476	88240

	(3/3) 333-2320 1 70 (3/3) 333-	3	١		١	I				١	1		١									
Company Name:	Basin Environmental Service Technologies, LLC	nologi	es,	LLC			81	BILL TO			21	10	1	A	ANALYSIS		REQUEST	EST	1			L
Project Manager:	Joel Lowry				P.O.	#:					10	61	V 1									
Address: P.O. E	P.O. Box 301				Company:	pan	×	BOPCO, LP	, LP		cel	0	2.									
City: Lovington	State: NM	Zip:	88	Z ip: 88260	Attn:			Tony Savoie			de	de Se										
Phone #: (575)3	(575)396-2378 Fax # : (575)396-1429	396-14	29		Address:	ess		522 W. Marland	land		de	20	-			k						
Project #:	Project Owner:	ň			City:			Carlsbad			0)										
Project Name:	Hat Mesa 31-32 Tank Battery- 32 State #1 Hashu *	take	#		State:		N N	Zip: 88	88220	de	5M)	21B	R TP									
Project Location:	Eddy Co., NM				Phone #:	1e #		(432)556-8730	730	lorid	(801	(80										
Sampler Name:					Fax #:	#				Ch	РН	EX										
FOR LAB USE ONLY				MATRIX	P	PRESERV	ERV.	SAMPLING	G		TF	вт										
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		,											
	West Wall #2							1/23/14	9:00	\times	X	X		П	Н	Н	H	\vdash	\sqcup	Ш	Ш	
7	South wall #7			-					9:15	\times	X	X		-			-		_			
S	west wall #2								9:45	X	X	X									_	
בו	North wall #1				_			_	10:00	×.	×	X								,		
N	Floor #1 @ 41					-			10:30	×	×	X					-	-				
6	Floor #2 @ 4'								11.100	X	X	X	`									
7	E051 wal #2					_		//	2:00	X	X	×					-					
8	Easy wall #2					-	-	2	2/30	X	×	X			+	+	+	+	_	_	_	
													\top	\top	\forall	\vdash	\vdash	\vdash	\sqcup	\sqcup	\sqcup	
PLEASE NOTE: Liability and I analyses. All claims including the service. In no event shall Card	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 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ny claim a deemed w	rising raived mitation	whether based in contract or d unless made in writing and re ion, business interruptions, loss	tort, shall ceived be of use,	Il be lin by Card or loss	nited to linal with	the amount paid by t hin 30 days after con fits incurred by client,	he client for the appletion of the apits subsidiaries,	pplicable			ı	- 1		-	ł	-				l
SELVICE. III IN GACIN SHOIL COLO	Indi be imple tot mendelimi er versegaerimi ammagae, menam																					

Relinquished By: Relinquished By: Time: 3:15 Date: 53/14 Date5/23/14 Received By: Fax Result: REMARKS: Phone Result:

Time: 410 7

Sample Condition

CHECKED BY: Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com HOLD FOR TPH

□ Yes

O No

Add'l Phone #: Add'l Fax #:

Cool Intact
Yes Yes
No No

Revision 1.0 FORM-006 Sampler - UPS - Bus - Other: Delivered By: (Circle One)

6

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



June 10, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA 32 STATE #1 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/29/14 11:25.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celes D. Keens

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



Basin Environmental Service JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/27/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SOUTH WALL #2 (H401647-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/10/2014	ND					
Surrogate: Dibromofluoromethane	87.2	% 61.3-14	2						
Surrogate: Toluene-d8	117 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	96.0	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/10/2014	ND	204	102	200	5.28	
DRO >C10-C28	<10.0	10.0	06/10/2014	ND	215	107	200	7.85	
EXT DRO >C28-C35	<10.0	10.0	06/10/2014	ND					
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.7	% 63.6-15	4						

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Basin Environmental Service JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/29/2014 Sampling Date: 05/27/2014

Reported: Sampling Type: Soil 06/10/2014

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SOUTH WALL #3 (H401647-02)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/10/2014	ND					
Surrogate: Dibromofluoromethane	98.9	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/10/2014	ND	204	102	200	5.28	
DRO >C10-C28	<10.0	10.0	06/10/2014	ND	215	107	200	7.85	
EXT DRO >C28-C35	<10.0	10.0	06/10/2014	ND					
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.1	% 63.6-15	4						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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(575) 393-2326 FAX (575) 393-2476	24/6				5		
Company Name: Basin Environmental Service Technologies, LLC	nologies, LLC	BILL TO	70		1		ANALYSIS REQUEST
Project Manager: Joel Lowry		P.O. #:		_	6	_	
Address: P.O. Box 301		Company:	BOPCO, LP		ed!	1	
City: Lovington State: NM	Zip: 88260	Attn: To	Tony Savoie		ld	-	
Phone #: (575)396-2378	396-1429	Address: 5:	522 W. Marland		ac		
Project #: Project Owner:	er:	City:	Carlsbad				PH
Project Name: Het Mesa 31-32- Jat Mesa 3	2 State # 1 Flashou	State: NM Zip:	b : 88220	de	15M)21E	RTI
Project Location: Eddy Co., NM - LPA Co / NM	2	Phone #:	(432)556-8730	lori			FO
Sampler Name: JOEC lowny		Fax #:		Ch			
FOR LAB USE ONLY		PRESERV.	SAMPLING				HC
Lab I.D. Sample I.D.	G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME				
South Wall #2		>4	5/27/14 1045	×	X	X	
2 South Wall #3	5 - *	× 5	5/27/14 1100	×	X	×	
						_	
DI EASE NOTE: I is billify and Damages. Cardinal's liabilify 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	any claim arising whether based in contract	or tort, shall be limited to the a	amount paid by the client for t	ne _	-	L	
PLEASE NOTE: Liabidy and Damages. Cardinal's sibility and clients excusive temesy for any own or any own or any own own or any own own or any own own of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed where unless made in writing and neceived 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, 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, service. In no event shall be allowed the consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service.	e deemed waived unless made in writing and government without limitation, business interruptions, I	d received by Cardinal within 3 loss of use, or loss of profits in	le in writing and received by Cardinal within 30 days after completion of the interruptions, loss of use, or loss of profits incurred by client, its subsidiarie	applicable as,			

Rélinquishe Relinquished By: Sampler - UPS - Bus - Other: Delivered By: E FORM-006 : (Circle One) Date: 5-25-14 5/24/14 Time: 8:00 52://sum Received By: Cool Intact

Yes Yes

No No Sample Condition ress. CHECKED BY: Fax Result: REMARKS: Phone Result: Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

☐ Yes

O No

Add'l Phone #: Add'l Fax #:

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

Revision 1.0

Page 5 of 5



June 10, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA 32 STATE #1 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/30/14 12:10.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

A .. . l. d D.

Project Location: EDDY COUNTY, NM

Sample ID: MA-50' @ SURFACE (H401665-01)

DTEV 0260D

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/10/2014	ND					
Surrogate: Dibromofluoromethane	100	% 61.3-14	12						
Surrogate: Toluene-d8	105	% 71.3-12	19						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	!1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/05/2014	ND	464	116	400	10.9	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	1060	10.0	06/04/2014	ND	178	89.0	200	7.42	
EXT DRO >C28-C35	499	10.0	06/04/2014	ND					
Surrogate: 1-Chlorooctane	100	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	14						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MA-50' @ 6" (H401665-02)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/10/2014	ND					
Surrogate: Dibromofluoromethane	104	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2014	ND	464	116	400	10.9	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	10.1	10.0	06/04/2014	ND	178	89.0	200	7.42	
EXT DRO >C28-C35	<10.0	10.0	06/04/2014	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.2	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MA-100' @ SURFACE (H401665-03)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
Toluene*	<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
Total BTEX	<0.300	0.300	06/10/2014	ND					
Surrogate: Dibromofluoromethane	97.9	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.1	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/05/2014	ND	464	116	400	10.9	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/04/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	127	10.0	06/04/2014	ND	178	89.0	200	7.42	
EXT DRO >C28-C35	76.7	10.0	06/04/2014	ND					
Surrogate: 1-Chlorooctane	102 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.1	% 63.6-15	4						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/10/2014 Sampling Type: Soil

Project Name: HAT MESA 32 STATE #1 FLOW LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: MA-150' @ SURFACE (H401665-04)

mg/	/kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	06/10/2014	ND	0.461	115	0.400	5.25	
<0.050	0.050	06/10/2014	ND	0.392	97.9	0.400	3.62	
<0.050	0.050	06/10/2014	ND	0.418	104	0.400	3.26	
<0.150	0.150	06/10/2014	ND	1.22	101	1.20	2.16	
<0.300	0.300	06/10/2014	ND					
101 :	% 61.3-14	2						
95.0	% 71.3-12	9						
93.8	% 65.7-14	1						
mg/	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	06/05/2014	ND	464	116	400	10.9	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/04/2014	ND	174	87.2	200	3.21	
30.8	10.0	06/04/2014	ND	178	89.0	200	7.42	
22.0	10.0	06/04/2014	ND					
97.7	% 65.2-14	0						
	Result <0.050 <0.050 <0.050 <0.150 <0.300 1011 95.0 93.8 mg, Result <16.0 mg, Result <10.0 30.8 22.0	<0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES

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

Company Name:	Basin Environmental Service Technologies, LLC	nolog	ies,	ГГС	6	BILL TO				1		ANA	ANALYSIS	- 1	REQUEST	TS			
Project Manager:	Joel Lowry				P.O. #:					6		٦	٦				1	1	
Address: P.O. Box 301	ox 301				Company:	BOPCO, LP	O, LP			el									
City: Lovington	State: NM	Zip	ω	Zip : 88260	Attn:	Tony Savoie	Φ.			Oo.									
Phone #: (575)3	(575)396-2378 Fax # : (575)396-1429	96-1	129		Address:	522 W. Marland	rland			0									
Project #:	Project Owner:	ā			City:	Carlsbad				a	+		7						
Project Name: E	Hat Mesa 31-32 Tank Battery Hat Moa 32 State #	lua	i	14 HAB 2	State: NM	Zip: 8	88220	е	5 M)	1B)	TPI								
Project Location:	Eddy Co., NM	F	6	Flow live	Phone #:	2)55	8730	rid	801	802	OR								
Sampler Name:					Fax #:			Chlo	H (8	X (D F							18	
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING	ត	(TP	вті	OL								
Lab I.D. 1401665	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	* 29 DATE	TIME				н								
-	MA-50' @ Surface	9	1			5/24/14	1400	×	×	×					T		1	I	
7	MA-50' @ 6"	9	1	×		5/24/14	1400	×	×	×							1		
S	MA-100' @ Surface	9	_	×		5/24/14	1400	×	×	×									
~	MA-150' @ Surface	9	_	×		5/24/14	1400	×	×	X									
															× -				
EASE NOTE: Liability and Day	Soos Parling's lightly and sligger and the second of							L											
alyses. All claims including tho	The client for the above the client sections and clients exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the above.	claim ar	w Buist	whether based in contract or to	ort, shall be limited to t	the amount paid by t	he client for the												

Sampler - UPS - Bus - Other: † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Cool Intact

A Yes Yes

No No CHECKED BY:

中で

Relinquished By:

Delivered By: (Circle One)

Revision 1.0 FORM-006 Relinquished By:

Date: 5-30-//

ptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Phone Result: Fax Result: REMARKS:

□ Yes

O O O

Add'l Phone #: Add'l Fax #:

ived By:

non

Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

HOLD FOR TPH

service. In no event shall Cardinal be liable for incid-