From: Yu, Olivia, EMNRD

To: "Chuck Johnston"; agroves@slo.state.nm.us

Subject: RE: Bimini 13 State #4 Work Plan

Date: Friday, October 13, 2017 8:49:00 AM

Attachments: image001.png

Good morning Mr. Johnston:

Thank you for the additional sample for 1RP-2755. The placement of the liner at 4 ft. is appreciated. Please submit a closure report with the location of the second sample at SP2 marked and dimensions of the liner outlined on a scaled map.

NMOCD thanks you for your continued compliance.

Olivia

From: Chuck Johnston [mailto:cjohnston@vnrenergy.com]

Sent: Wednesday, October 11, 2017 4:16 PM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; agroves@slo.state.nm.us

Subject: RE: Bimini 13 State #4 Work Plan

Olivia, please see the attached sample for the Bimini 13 State #4. To save money I ask EPI to go ahead and remove the 4 ft of soil and place the liner in the bottom while pulling the sample. They then backfilled with new soil. This way they wouldn't have to go back if the sample came back a little high. Let me know your thoughts.

Thanks,

Chuck Johnston EHS / Operations Specialist 432-202-4771 Cell 432-248-8154 Office



From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Tuesday, September 05, 2017 9:45 AM To: Chuck Johnston; agroves@slo.state.nm.us Subject: RE: Bimini 13 State #4 Work Plan

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Good morning Mr. Johnston:

Acknowledged. Thank you for your prompt response.

Olivia

From: Chuck Johnston [mailto:cjohnston@vnrenergy.com]

Sent: Tuesday, September 5, 2017 7:59 AM

To: Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us >; agroves@slo.state.nm.us

Subject: RE: Bimini 13 State #4 Work Plan

Thanks Olivia – I will have EPI pull another sample.

Chuck Johnston EHS / Operations Specialist 432-202-4771 Cell 432-248-8154 Office



From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Friday, September 01, 2017 5:05 PM
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Dear Mr. Johnston:

Based on the provided information, NMOCD requires additional data to determine the remediation plan for 1RP-2755. Please submit a minimal of one soil sample at 4 ft. bgs at the area represented by SP2. If the laboratory analysis of chloride is <= 600 mg/kg using Method 300, then no remedial action is necessary. Is this clear? If so, please confirm. Otherwise, please contact for clarification.

Thanks, Olivia

From: Chuck Johnston [mailto:cjohnston@vnrenergy.com]

Sent: Monday, August 21, 2017 9:52 AM

To: Yu, Olivia, EMNRD < Olivia. Yu@state.nm.us >; agroves@slo.state.nm.us

Subject: FW: Bimini 13 State #4 Work Plan

Olivia and Amber, please find attached the packet of information for the Bimini so you can review before we meet next Monday. Chlorides are pretty low and on the well site so I need some help to determine the final remediation.

Thanks and see you ladies next week!

Chuck Johnston EHS / Operations Specialist 432-202-4771 Cell 432-248-8154 Office



From: Daniel Dominguez [mailto:ddominguezepi@gmail.com]



October 11, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: BIMINI 13 STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 09/25/17 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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 accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Reported:

11-Oct-17 15:56



Analytical Results For:

Environmental Plus, Inc.

Project: BIMINI 13 STATE #4

P.O. Box 1558 Eunice NM, 88231 Project Number: VANGUARD

Project Manager: Daniel Dominguez

Fax To: (505) 394-2601

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 2 @ (4')	H702606-01	Soil	22-Sep-17 15:45	25-Sep-17 15:25

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

Environmental Plus, Inc.

P.O. Box 1558 Eunice NM, 88231 Project: BIMINI 13 STATE #4

Project Number: VANGUARD
Project Manager: Daniel Dominguez

Fax To: (505) 394-2601

Reported: 11-Oct-17 15:56

SP 2 @ (4') H702606-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	al Laborato	ories								
Volatile Organic Compounds by	EPA Method	8021											
Benzene*	< 0.050		0.050	mg/kg	50	7092803	MS	28-Sep-17	8021B				
Toluene*	< 0.050		0.050	mg/kg	50	7092803	MS	28-Sep-17	8021B				
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7092803	MS	28-Sep-17	8021B				
Total Xylenes*	< 0.150		0.150	mg/kg	50	7092803	MS	28-Sep-17	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	7092803	MS	28-Sep-17	8021B				
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-1	48	7092803	MS	28-Sep-17	8021B				
Petroleum Hydrocarbons by GC	FID												
GRO C6-C10	<10.0		10.0	mg/kg	1	7092701	MS	27-Sep-17	8015B				
DRO >C10-C28	<10.0		10.0	mg/kg	1	7092701	MS	27-Sep-17	8015B				
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7092701	MS	27-Sep-17	8015B				
Surrogate: 1-Chlorooctane			70.5 %	28.3-	164	7092701	MS	27-Sep-17	8015B				
Surrogate: 1-Chlorooctadecane			71.2 %	34.7-	157	7092701	MS	27-Sep-17	8015B				
	Green Analytical Laboratories												
Soluble (DI Water Extraction)													
Chloride	20.2		10.0	mg/kg wet	10	B710045	JDA	06-Oct-17	EPA300.0				

Cardinal Laboratories *=Accredited Analyte

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0/DEC



Analytical Results For:

Environmental Plus, Inc.

P.O. Box 1558 Eunice NM, 88231 Project: BIMINI 13 STATE #4

Project Number: VANGUARD
Project Manager: Daniel Dominguez

Fax To: (505) 394-2601

Reported: 11-Oct-17 15:56

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7092803 - Volatiles										
Blank (7092803-BLK1)				Prepared &	Analyzed:	28-Sep-17				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	72-148			
LCS (7092803-BS1)				Prepared &	Analyzed:	28-Sep-17				
Benzene	1.78	0.050	mg/kg	2.00		88.9	79.5-124			
Toluene	1.61	0.050	mg/kg	2.00		80.7	75.5-127			
Ethylbenzene	1.63	0.050	mg/kg	2.00		81.3	77.7-125			
Total Xylenes	4.94	0.150	mg/kg	6.00		82.3	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	72-148			
LCS Dup (7092803-BSD1)				Prepared &	Analyzed:	28-Sep-17				
Benzene	1.75	0.050	mg/kg	2.00		87.4	79.5-124	1.68	6.5	<u> </u>
Toluene	1.58	0.050	mg/kg	2.00		79.0	75.5-127	2.06	7.02	
Ethylbenzene	1.62	0.050	mg/kg	2.00		80.8	77.7-125	0.562	7.83	
Total Xylenes	4.92	0.150	mg/kg	6.00		82.0	70.9-124	0.354	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	72-148			

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Analytical Results For:

Environmental Plus, Inc.

P.O. Box 1558 Eunice NM, 88231 Project: BIMINI 13 STATE #4

Project Number: VANGUARD
Project Manager: Daniel Dominguez

Fax To: (505) 394-2601

Reported: 11-Oct-17 15:56

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7092701-BLK1)		Prepared & Analyzed: 27-Sep-17												
GRO C6-C10	ND	10.0	mg/kg											
DRO >C10-C28	ND	10.0	mg/kg											
EXT DRO >C28-C35	ND	10.0	mg/kg											
EXT DRO >C28-C36	ND	10.0	mg/kg											
Total TPH C6-C28	ND	10.0	mg/kg											
Surrogate: 1-Chlorooctane	42.7		mg/kg	50.0	85.4	28.3-164								
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0	90.4	34.7-157								
LCS (7092701-BS1)				Prepared & Anal	lyzed: 27-Sep-17	,								
GRO C6-C10	224	10.0	mg/kg	200	112	76.6-119								
DRO >C10-C28	230	10.0	mg/kg	200	115	81.4-124								
Total TPH C6-C28	454	10.0	mg/kg	400	113	79.4-121								
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0	95.6	28.3-164								
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0	93.5	34.7-157								
LCS Dup (7092701-BSD1)				Prepared & Anal	lyzed: 27-Sep-17	,								
GRO C6-C10	220	10.0	mg/kg	200	110	76.6-119	1.88	7.94						
DRO >C10-C28	229	10.0	mg/kg	200	115	81.4-124	0.344	9.83						
Total TPH C6-C28	449	10.0	mg/kg	400	112	79.4-121	1.10	8.57						
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0	93.8	28.3-164								
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0	90.6	34.7-157								

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%REC

Limits

RPD



Analytical Results For:

Environmental Plus, Inc.

P.O. Box 1558 Eunice NM, 88231

Analyte

Project: BIMINI 13 STATE #4

Spike

Level

Source

Result

%REC

Project Number: VANGUARD

Project Manager: Daniel Dominguez

Reported: 11-Oct-17 15:56

RPD

Limit

Notes

Fax To: (505) 394-2601

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Units

Reporting

Limit

Result

Batch B710045 - General Prep - Wet	Chem											
Blank (B710045-BLK1)		Prepared: 05-Oct-17 Analyzed: 06-Oct-17										
Chloride	ND	10.0 mg/kg wet										
LCS (B710045-BS1)		Prepared: 05-Oct-17 Analyzed: 06-Oct-17										
Chloride	243	10.0 mg/kg wet	250	97.1	85-115							
LCS Dup (B710045-BSD1)		Prepared: 05-Oct-17 Analyzed: 06-Oct-17										
Chloride	245	10.0 mg/kg wet	250	98.0	85-115	0.943	20					

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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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LAB

Chain of Custody Form

Sampler Relinquished: A-6	10	9	20 7	6	SI.	4	3	2	1 SP	LAB I.D.		EPI Sampler Name	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	2100 Avenue O, Eunice, NM 88231 (575) 394-3481 FAX: (575) 394-260
Date 9-25-17 Time 6:00 am Date 3-25-17 Time 6:00 am Date 3-17 Time 5:25 Time 5:25 Yes									SP2 (4")	SAMPLE I.D.		Dustin Crockett			Bimini 13 State #4	Vanguard	575-394-3481 / 575-394-2601	Eunice New Mexico 88231	P.O. BOX 1558	er Daniel Dominguez	Environmental Plus,	Eunice, NM 88231 FAX: (575) 394-2601
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From: Yu, Olivia, EMNRD

To: Chuck Johnston; agroves@slo.state.nm.us

Subject: RE: Bimini 13 State #4 Work Plan

Date: Tuesday, September 5, 2017 8:44:00 AM

Attachments: image001.png

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Subject: FW: Bimini 13 State #4 Work Plan

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Thanks and see you ladies next week!

Chuck Johnston EHS / Operations Specialist 432-202-4771 Cell 432-248-8154 Office



From: Daniel Dominguez [mailto:ddominguezepi@gmail.com]