30-045-29293

Kelly, Jonathan, EMNRD

From:

Kelly, Jonathan, EMNRD

Sent:

Friday, December 13, 2013 3:35 PM

To:

Mike

Cc:

roger.mullins@duganproduction.com; Powell, Brandon, EMNRD

Subject:

RE: APRIL SURPRISE #7

Mike and Roger,

Since the site ranking was set at 10 due to the distance to the pond from the end of the release, setting the closure standard for TPH at 1000 ppm, the lab results returned indicate that the clean-up has met the closure standard and that Dugan Production can commence with backfilling. Be sure to also follow up with the BLM and follow any requirements they have for the reclamation of the release. Also, be sure to attach a hard copy of the sample results to the final C-141 when you submit it and forward over the BTEX results when received.

Thank you,

Jonathan D. Kelly
Compliance Officer
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 122
ionathan.kelly@state.nm.us

From: Mike [mailto:Mike.Sandoval@duganproduction.com]

Sent: Friday, December 13, 2013 3:25 PM

To: Kelly, Jonathan, EMNRD

Subject: Fwd: APRIL SURPRISE #7

Begin forwarded message:

From: Celey Keene <celey.keene@cardinallabsnm.com>

Date: December 13, 2013, 1:33:13 PM MST

To: Mike Sandoval < mike.sandoval@duganproduction.com >

Subject: APRIL SURPRISE #7

THANK YOU,

Celey Keene Lab Director Cardinal Laboratories 101 East Marland Hobbs, NM 88240

T: (575) 393-2326 F: (575) 393-2476

e-mail: celey.keene@cardinallabsnm.com

(12)



December 13, 2013

MIKE SANDOVAL

DUGAN PRODUCTION

P. O. BOX 420

FARMINGTON, NM 87499

RE: OIL SPILL

Enclosed are the results of analyses for samples received by the laboratory on 12/11/13 12:30.

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 on accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/qa/lab accredited 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.

Celeg & Keene

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



DUGAN PRODUCTION

Project: OIL SPILL

Reported:

P. O. BOX 420

Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL

13-Dec-13 13:31

FARMINGTON NM, 87499

Fax To: (505) 327-4043

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TANK CONTAINMENT	H302986-01	Soil	09-Dec-13 11:30	11-Dec-13 12:30
ON ROW	H302986-02	Soil	09-Dec-13 11:10	11-Dec-13 12:30
OFF ROW #1	H302986-03	Soil	09-Dec-13 11:50	11-Dec-13 12:30
OFF ROW #2	H302986-04	Soil	09-Dec-13 12:00	11-Dec-13 12:30
OFF ROW #3	H302986-05	Soil	09-Dec-13 12:10	11-Dec-13 12:30

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keine



DUGAN PRODUCTION

Project: OIL SPILL

Reported:

P. O. BOX 420

Project Number: APRIL SURPRISE #7

13-Dec-13 13:31

FARMINGTON NM, 87499

Project Manager: MIKE SANDOVAL

Fax To: (505) 327-4043

TANK CONTAINMENT

H302986-01 (Soil)

Analyte	Result Reporting Limi		Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories													
Organic Compounds													
ГРН 418.1	162	100	mg/kg	10	3121301	CK	13-Dec-13	418.1					
Petroleum Hydrocarbons by GC FID													
GRO C6-C10	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
DRO >C10-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Total TPH C6-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctane		101 %	65.2-140		3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctadecane		97.0 %	63.6-154		3121207	ms	12-Dec-13	8015B					

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Celey D. Keine



DUGAN PRODUCTION

Project: OIL SPILL

Reported:

P. O. BOX 420

Project Number: APRIL SURPRISE #7

13-Dec-13 13:31

FARMINGTON NM, 87499

Project Manager: MIKE SANDOVAL

Fax To: (505) 327-4043

ON ROW

H302986-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes					
Cardinal Laboratories														
Organic Compounds														
TPH 418.1	249	100	mg/kg	10	3121301	CK	13-Dec-13	418.1						
Petroleum Hydrocarbons by GC FID														
GRO C6-C10	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B						
DRO >C10-C28	84.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B						
Total TPH C6-C28	84.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B						
Surrogate: 1-Chlorooctane		105 %	65.2	-140	3121207	ms	12-Dec-13	8015B						
Surrogate: 1-Chlorooctadecane		101 %	63.6	-154	3121207	ms	12-Dec-13	8015B						

*=Accredited Analyte Cardinal Laboratories

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Celey D. Keene



DUGAN PRODUCTION

Project: OIL SPILL

Reported:

P. O. BOX 420

Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL

13-Dec-13 13:31

FARMINGTON NM, 87499

Fax To: (505) 327-4043

OFF ROW #1 H302986-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories													
Organic Compounds													
TPH 418.1	< 100	100	mg/kg	10	3121301	CK	13-Dec-13	418.1					
Petroleum Hydrocarbons by GC FID													
GRO C6-C10	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
DRO >C10-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Total TPH C6-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctane		99.7 %	65.2-140		3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctadecane		97.4 %	63.6	-154	3121207	ms	12-Dec-13	8015B					

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Celey D. Keine



DUGAN PRODUCTION

P. O. BOX 420

FARMINGTON NM, 87499

Project: OIL SPILL

Project Number: APRIL SURPRISE #7

Project Manager: MIKE SANDOVAL

Fax To: (505) 327-4043

Reported:

13-Dec-13 13:31

OFF ROW #2 H302986-04 (Soil)

Analyte	Result	Reporting Limit	Units	nits Dilution I		Analyst	Analyzed Method		Notes				
Cardinal Laboratories													
Organic Compounds													
TPH 418.1	< 100	100	mg/kg	10	3121301	CK	13-Dec-13	418.1					
Petroleum Hydrocarbons by GC FID													
GRO C6-C10	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
DRO >C10-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Total TPH C6-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctane		98.7 %	65.2	-140	3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctadecane		99.7 %	63.6	-154	3121207	ms	12-Dec-13	8015B					

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



DUGAN PRODUCTION

P. O. BOX 420 FARMINGTON NM, 87499 Project: OIL SPILL

Project Number: APRIL SURPRISE #7 Project Manager: MIKE SANDOVAL

Fax To: (505) 327-4043

Reported:

13-Dec-13 13:31

OFF ROW #3 H302986-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories													
Organic Compounds													
TPH 418.1	130	100	mg/kg	10	3121301	CK	13-Dec-13	418.1					
Petroleum Hydrocarbons by GC FID													
GRO C6-C10	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
DRO >C10-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Total TPH C6-C28	< 10.0	10.0	mg/kg	1	3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctane		112 %	65.2	-140	3121207	ms	12-Dec-13	8015B					
Surrogate: 1-Chlorooctadecane		105 %	63.6	-154	3121207	ms	12-Dec-13	8015B					

Cardinal Laboratories

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Celey & Keene

%REC



Analytical Results For:

DUGAN PRODUCTION

Project: OIL SPILL

Reporting

Reported:

RPD

P. O. BOX 420

13-Dec-13 13:31

FARMINGTON NM, 87499

Project Number: APRIL SURPRISE #7 Project Manager: MIKE SANDOVAL

Fax To: (505) 327-4043

Snike

Source

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3121301 - Solvent Extraction										
Blank (3121301-BLK1)				Prepared &	Analyzed:	13-Dec-13				
TPH 418.1	ND	100	mg/kg							
LCS (3121301-BS1)				Prepared &	Analyzed:	13-Dec-13				
TPH 418.1	5440	100	mg/kg	5000		109	80-120			
LCS Dup (3121301-BSD1)				Prepared &	Analyzed:	13-Dec-13				
TPH 418.1	5810	100	mg/kg	5000		116	80-120	6.69	20	

Cardinal Laboratories

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Celey D. Keene



DUGAN PRODUCTION

Project: OIL SPILL

Reported:

RPD

P. O. BOX 420 FARMINGTON NM, 87499 Project Number: APRIL SURPRISE #7

13-Dec-13 13:31

%REC

Project Manager: MIKE SANDOVAL

Reporting

Spike

Source

Fax To: (505) 327-4043

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3121207 - General Prep - Organics										
Blank (3121207-BLK1)				Prepared &	Analyzed:	12-Dec-13				
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							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.1	65.2-140			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.3	63.6-154			
LCS (3121207-BS1)				Prepared &	Analyzed:	12-Dec-13				
GRO C6-C10	186	10.0	mg/kg	200		93.2	66.4-124			
DRO >C10-C28	197	10.0	mg/kg	200		98.6	61.6-132			
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	69.7-122			
Surrogate: 1-Chlorooctane	55.6		mg/kg	50.0		111	65.2-140			
Surrogate: 1-Chlorooctadecane	55.3		mg/kg	50.0		111	63.6-154			
LCS Dup (3121207-BSD1)				Prepared &	Analyzed:	12-Dec-13				
GRO C6-C10	182	10.0	mg/kg	200		91.1	66.4-124	2.35	23.4	
DRO >C10-C28	185	10.0	mg/kg	200		92.3	61.6-132	6.62	23.1	
Total TPH C6-C28	367	10.0	mg/kg	400		91.7	69.7-122	4.52	20.6	
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	65.2-140			
Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	63.6-154			

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Celey D. Keine



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. Keine



Samuturn around & Cach Bampu Separatt Report like last time

CHAIN	OF	CUSTOD	Y RECORD
CILITII	UI	CUSTUD	INLCOND

1		
r	anks	Page_

Page___of__

FOR GAL USE ONLY

GAL JOB#

Client: Dead	an Production	
	e Sandoval	
Address:		

Phone Number: 505-330-0929

Email:

1) Ensure proper container packaging.

NOTES:

2) Ship samples promptly following collection.

3) Designate Sample Reject Disposition.

Project Name: 0,1 50,11

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water

3 = Soil/Sediment, 4 = Prod.W., 5 = Oil

6 =Waste, 7 =Other (Specify)

Samplers Signature:

	Lab Name: Green Ana	lytical Labor	atories	(9	970) 24	7-4220) FA	X (9	970)	247-	4227	7				Analy	ses R	equire	ed			hactorast poldstorast	
	Address: 75 Suttle S	Street, Duran	go, CO 813	303		www	w.gree	nan	alyti	cal.	con	1		#							1	1 desto	
		Collec	ction		Miscellaneous				Preservative(s)											e	now w		
	Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)			4	T.	Other (Specify)	oca pon s				7.				Comments	
	H302986		8		Matri	No. 0	Samp	Unpre	HN03	HCL	H2SO4	NAOH	Other	Aydra									
	1 Tank Contribute	# 12-9-1	3 11:30																			5 0	
2	2 ON ROW	12-9-13	11:10		-																2		
3	3. Off Row 1	12-9-13	11:50																				
4	4.Off Row 2	12-9-13	12:00								1												
ó	5. Off Row#3	12-943	12:10																				
	6.																						
	7.		<u> </u>																				
	8.																						
	9.															-					A		
	10.	11			2			m:				1			h	,				- 1	<u> </u>		
	Relinquished by:	of Son	leste_			1-9.	83		1:05		Recei	11	ul	re.	Ũ	as	1			Date	19/	13 Time 05	
	Relinquished by:	ain			Date:	<u>FO</u> //	3	Time	330)	Rece	Ved by	1	AN	en	So	n			Date	10/	13 763	9
	* Sample Reject: [] Return	[] Dispose	[] Store (30) Days)							1	4	16	0					p.		1.1		