

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
jonathan.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

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.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:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: OIL SPILL
Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
13-Dec-13 13:31

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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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: OIL SPILL
Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
13-Dec-13 13:31**TANK CONTAINMENT****H302986-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Organic Compounds**

TPH 418.1	162	100	mg/kg	10	3121301	CK	13-Dec-13	418.1
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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. Keene, Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: OIL SPILL
Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
13-Dec-13 13:31**ON ROW**
H302986-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Organic Compounds**

TPH 418.1	249	100	mg/kg	10	3121301	CK	13-Dec-13	418.1
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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: OIL SPILL
Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
13-Dec-13 13:31**OFF ROW #1
H302986-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Organic Compounds**

TPH 418.1	< 100	100	mg/kg	10	3121301	CK	13-Dec-13	418.1
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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. Keene, Lab Director/Quality Manager

Analytical Results For:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: OIL SPILL
Project Number: APRIL SURPRISE #7
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
13-Dec-13 13:31**OFF ROW #2**
H302986-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Organic Compounds**

TPH 418.1	< 100	100	mg/kg	10	3121301	CK	13-Dec-13	418.1
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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	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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
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Cardinal Laboratories
Organic Compounds

TPH 418.1	130	100	mg/kg	10	3121301	CK	13-Dec-13	418.1
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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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Organic Compounds - Quality Control

Cardinal Laboratories

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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 312107 - General Prep - Organics
Blank (312107-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 (312107-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 (312107-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. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

