

June 10, 2014

JULIO MARTINEZ

ONE SOURCE ENVIRONMENTAL SERVICES

9205 W. CO. RD. 127

MIDLAND, TX 79706

HOBBS OCD

JUN 11 2014

RECEIVED

RE: QUAIL 16 STATE #8 H DRILLING PIT

Enclosed are the results of analyses for samples received by the laboratory on 06/09/14 15:18.

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

approved for closure to proceed
Stephany Lekins
Environmental Specialist
NMOC-DIST 1
6/11/14

Analytical Results For:

 ONE SOURCE ENVIRONMENTAL SERVICES
 JULIO MARTINEZ
 9205 W. CO. RD. 127
 MIDLAND TX, 79706
 Fax To: (432) 561-8806

Received:	06/09/2014	Sampling Date:	06/09/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	QUAIL 16 STATE #8 H DRILLING PIT	Sampling Condition:	** (See Notes)
Project Number:	C-144 CLOSURE PLAN	Sample Received By:	Celey D. Keene
Project Location:	EUNICE, NM		

Sample ID: PIT CONTENTS (H401747-01)

BTEX 8260B		mg/kg		Analyzed By: ms			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.062	0.050	06/10/2014	ND	2.31	115	2.00	1.63	
Toluene*	1.29	0.050	06/10/2014	ND	1.86	93.1	2.00	14.0	
Ethylbenzene*	1.41	0.050	06/10/2014	ND	2.10	105	2.00	0.396	
Total Xylenes*	3.99	0.150	06/10/2014	ND	6.37	106	6.00	0.661	
Total BTEX	6.75	0.300	06/10/2014	ND					

Surrogate: Dibromofluoromethane 98.4 % 61.3-142
 Surrogate: Toluene-d8 128 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 273 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	06/10/2014	ND	416	104	400	0.00	
Paint Filter 9095	N/A								

Paint Filter 9095		N/A		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Paint Filter Test	PASSED		06/10/2014						

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1190	100	06/10/2014	ND	6180	124	5000	0.0162	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	66.0	10.0	06/10/2014	ND	204	102	200	5.28	
DRO >C10-C28	378	10.0	06/10/2014	ND	215	107	200	7.85	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	06/09/2014	Sampling Date:	06/09/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	QUAIL 16 STATE #8 H DRILLING PIT	Sampling Condition:	** (See Notes)
Project Number:	C-144 CLOSURE PLAN	Sample Received By:	Celey D. Keene
Project Location:	EUNICE, NM		

Sample ID: PIT CONTENTS (H401747-01)

TPH 8015M	mg/kg	Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctane	96.8 %	65.2-140								
Surrogate: 1-Chlorooctadecane	113 %	63.6-154								

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Received:	06/09/2014	Sampling Date:	06/09/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	QUAIL 16 STATE #8 H DRILLING PIT	Sampling Condition:	** (See Notes)
Project Number:	C-144 CLOSURE PLAN	Sample Received By:	Celey D. Keene
Project Location:	EUNICE, NM		

Sample ID: UNDERNEATH LINER (H401747-02)

BTEX 8260B		mg/kg		Analyzed 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	2.31	115	2.00	1.63	
Toluene*	<0.050	0.050	06/10/2014	ND	1.86	93.1	2.00	14.0	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	2.10	105	2.00	0.396	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	6.37	106	6.00	0.661	
Total BTEX	<0.300	0.300	06/10/2014	ND					

Surrogate: Dibromofluoromethane 98.3 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 110 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	06/10/2014	ND	416	104	400	0.00	

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	197	100	06/10/2014	ND	6180	124	5000	0.0162	

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	91.9	10.0	06/10/2014	ND	215	107	200	7.85	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Received:	06/09/2014	Sampling Date:	06/09/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	QUAIL 16 STATE #8 H DRILLING PIT	Sampling Condition:	** (See Notes)
Project Number:	C-144 CLOSURE PLAN	Sample Received By:	Celey D. Keene
Project Location:	EUNICE, NM		

Sample ID: SOIL COVER (H401747-03)

BTEX 8260B		mg/kg		Analyzed 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	2.31	115	2.00	1.63	
Toluene*	<0.050	0.050	06/10/2014	ND	1.86	93.1	2.00	14.0	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	2.10	105	2.00	0.396	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	6.37	106	6.00	0.661	
Total BTEX	<0.300	0.300	06/10/2014	ND					

Surrogate: Dibromofluoromethane	96.8 %	61.3-142
Surrogate: Toluene-d8	105 %	71.3-129
Surrogate: 4-Bromofluorobenzene	101 %	65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/10/2014	ND	416	104	400	0.00	

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	06/10/2014	ND	6180	124	5000	0.0162	

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	

Surrogate: 1-Chlorooctane	111 %	65.2-140
Surrogate: 1-Chlorooctadecane	130 %	63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

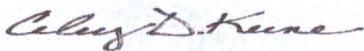
Notes and Definitions

- Z-01 PASSED
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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