

April 30, 2014

SHELDON HITCHCOCK
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: MARTHA CREEK

Enclosed are the results of analyses for samples received by the laboratory on 04/10/14 12:05.

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 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:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 04/10/2014
Reported: 04/30/2014
Project Name: MARTHA CREEK
Project Number: NOT GIVEN
Project Location: NONE GIVEN

Sampling Date: 04/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

Sample ID: S-1 0' (H401095-01)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.578	0.500	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	13.9	0.500	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	7.63	0.500	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	63.4	1.50	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTX	85.5	3.00	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 158 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	854	100	04/15/2014	ND	213	106	200	0.378	
DRO >C10-C28	7590	100	04/15/2014	ND	235	117	200	2.09	

Surrogate: 1-Chlorooctane 157 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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 Received: 04/10/2014
 Reported: 04/30/2014
 Project Name: MARTHA CREEK
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

 Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: S-1 0.5' (H401095-02)

BTEx 8021B			mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	04/16/2014	ND	2.54	127	2.00	0.0570		
Toluene*	0.984	0.100	04/16/2014	ND	2.42	121	2.00	0.392		
Ethylbenzene*	7.08	0.100	04/16/2014	ND	2.39	120	2.00	0.684		
Total Xylenes*	7.31	0.300	04/16/2014	ND	6.93	115	6.00	1.27		
Total BTEx	15.4	0.600	04/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 560 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/15/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	180	10.0	04/15/2014	ND	213	106	200	0.378	
DRO >C10-C28	1740	10.0	04/15/2014	ND	235	117	200	2.09	

Surrogate: 1-Chlorooctane 133 % 65.2-140

Surrogate: 1-Chlorooctadecane 159 % 63.6-154

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Received: 04/10/2014
Reported: 04/30/2014
Project Name: MARTHA CREEK
Project Number: NOT GIVEN
Project Location: NONE GIVEN

Sampling Date: 04/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

Sample ID: S-2 0' (H401095-03)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.61	5.00	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	149	5.00	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	69.4	5.00	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	551	15.0	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEX	779	30.0	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 165 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/15/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8660	50.0	04/15/2014	ND	213	106	200	0.378	
DRO >C10-C28	35500	50.0	04/15/2014	ND	235	117	200	2.09	

Surrogate: 1-Chlorooctane 470 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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 Fax To: (575) 745-8905

 Received: 04/10/2014
 Reported: 04/30/2014
 Project Name: MARTHA CREEK
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

 Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: S-2 0.5' (H401095-04)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.49	5.00	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	122	5.00	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	38.2	5.00	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	340	15.0	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEX	509	30.0	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 136 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5380	50.0	04/15/2014	ND	213	106	200	0.378	
DRO >C10-C28	18200	50.0	04/15/2014	ND	235	117	200	2.09	

Surrogate: 1-Chlorooctane 260 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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 Received: 04/10/2014
 Reported: 04/30/2014
 Project Name: MARTHA CREEK
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

 Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: S-3 0' (H401095-05)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	27.7	10.0	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	279	10.0	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	82.7	10.0	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	737	30.0	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEX	1130	60.0	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 138 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17600	100	04/15/2014	ND	213	106	200	0.378	
DRO >C10-C28	57300	100	04/15/2014	ND	235	117	200	2.09	

Surrogate: 1-Chlorooctane 766 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Analytical Results For:

 TALON LPE
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/10/2014
 Reported: 04/30/2014
 Project Name: MARTHA CREEK
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

 Sampling Date: 04/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

Sample ID: S-3 0.5' (H401095-06)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	43.1	10.0	04/16/2014	ND	2.54	127	2.00	0.0570	
Toluene*	385	10.0	04/16/2014	ND	2.42	121	2.00	0.392	
Ethylbenzene*	101	10.0	04/16/2014	ND	2.39	120	2.00	0.684	
Total Xylenes*	898	30.0	04/16/2014	ND	6.93	115	6.00	1.27	
Total BTEX	1430	60.0	04/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 138 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/15/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14000	100	04/15/2014	ND	213	106	200	0.378	
DRO >C10-C28	40000	100	04/15/2014	ND	235	117	200	2.09	

Surrogate: 1-Chlorooctane 552 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celest D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: D. Atkins

Address: 408 W. Texas

City: Arctida

Phone #:

Project #:

Project Name: Matthews Creek

Project Location:

Sample Name: S. Hitchcock

State: NM

Zip: 88210

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

P.O. #:

Company:

Lab I.D. Sample I.D.

1 5-1 0'

2 5-1 0.5'

3 5-2 0'

4 5-2 0.5'

5 5-3 0'

6 5-3 0.5'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chlorides

4-9-14

2:52

3:00

3:02

3:04

3:08

3:12

1

1

1

1

1

1

1

Reinquinshed By:

Reinquinshed By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☒

CHECKED BY: (Initials)

REMARKS:

* Sample project name changed as per SUEB

Phone Result: ☐ Yes ☐ No

Add'l Phone #:

Fax Result: ☐ Yes ☐ No

Add'l Fax #:

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101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

BILL TO