



November 12, 2014

DAVID ADKINS
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: SAN LORENZO SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/07/14 16:00.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/07/2014	Sampling Date:	11/06/2014
Reported:	11/12/2014	Sampling Type:	Water
Project Name:	SAN LORENZO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W-1 (H403437-01)

BTEX 8260B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	11/11/2014	ND	0.020	102	0.0200	5.71	
Toluene*	<0.001	0.001	11/11/2014	ND	0.017	86.4	0.0200	7.57	
Ethylbenzene*	<0.001	0.001	11/11/2014	ND	0.017	85.3	0.0200	9.17	
Total Xylenes*	<0.003	0.003	11/11/2014	ND	0.054	90.2	0.0600	8.64	
Total BTEX	<0.006	0.006	11/11/2014	ND					

Surrogate: Dibromofluoromethane 107 % 88.3-113

Surrogate: Toluene-d8 94.4 % 90.3-115

Surrogate: 4-Bromofluorobenzene 96.4 % 87.2-114

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	840	4.00	11/11/2014	ND	104	104	100	3.92	

TPH 8015M		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	11/11/2014	ND	41.8	83.6	50.0	22.3	
DRO >C10-C28	<1.00	1.00	11/11/2014	ND	47.3	94.7	50.0	25.3	
EXT DRO >C28-C35	<1.00	1.00	11/11/2014	ND	ND		0.00		

Surrogate: 1-Chlorooctane 81.7 % 36.1-161

Surrogate: 1-Chlorooctadecane 96.2 % 36-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/07/2014	Sampling Date:	11/06/2014
Reported:	11/12/2014	Sampling Type:	Water
Project Name:	SAN LORENZO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W-2 (H403437-02)

BTEX 8260B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	11/11/2014	ND	0.020	102	0.0200	5.71		
Toluene*	<0.001	0.001	11/11/2014	ND	0.017	86.4	0.0200	7.57		
Ethylbenzene*	<0.001	0.001	11/11/2014	ND	0.017	85.3	0.0200	9.17		
Total Xylenes*	<0.003	0.003	11/11/2014	ND	0.054	90.2	0.0600	8.64		
Total BTEX	<0.006	0.006	11/11/2014	ND						

Surrogate: Dibromofluoromethane 106 % 88.3-113

Surrogate: Toluene-d8 96.6 % 90.3-115

Surrogate: 4-Bromofluorobenzene 99.2 % 87.2-114

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	600	4.00	11/11/2014	ND	104	104	100	3.92		

TPH 8015M		mg/L		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<1.00	1.00	11/11/2014	ND	41.8	83.6	50.0	22.3		
DRO >C10-C28	<1.00	1.00	11/11/2014	ND	47.3	94.7	50.0	25.3		
EXT DRO >C28-C35	<1.00	1.00	11/11/2014	ND	ND		0.00			

Surrogate: 1-Chlorooctane 76.8 % 36.1-161

Surrogate: 1-Chlorooctadecane 97.3 % 36-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/07/2014	Sampling Date:	11/06/2014
Reported:	11/12/2014	Sampling Type:	Water
Project Name:	SAN LORENZO SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W-3 (H403437-03)

BTEX 8260B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	11/11/2014	ND	0.020	102	0.0200	5.71		
Toluene*	<0.001	0.001	11/11/2014	ND	0.017	86.4	0.0200	7.57		
Ethylbenzene*	<0.001	0.001	11/11/2014	ND	0.017	85.3	0.0200	9.17		
Total Xylenes*	<0.003	0.003	11/11/2014	ND	0.054	90.2	0.0600	8.64		
Total BTEX	<0.006	0.006	11/11/2014	ND						

Surrogate: Dibromofluoromethane 111 % 88.3-113

Surrogate: Toluene-d8 95.1 % 90.3-115

Surrogate: 4-Bromofluorobenzene 93.5 % 87.2-114

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	630	4.00	11/11/2014	ND	104	104	100	3.92		

TPH 8015M		mg/L		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<1.00	1.00	11/11/2014	ND	41.8	83.6	50.0	22.3		
DRO >C10-C28	<1.00	1.00	11/11/2014	ND	47.3	94.7	50.0	25.3		
EXT DRO >C28-C35	<1.00	1.00	11/11/2014	ND	ND		0.00			

Surrogate: 1-Chlorooctane 81.1 % 36.1-161

Surrogate: 1-Chlorooctadecane 98.6 % 36-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



ANALYSIS REQUEST

BILL TO

Company Name: Talon/LE
Project Manager: DAVID ADKINS
Address: 408 W. Texas Ave.
City: Artesia State: NM zip: 88210
Phone #: 575-746-8768 Fax #: 575-746-8905

P.O. #: Newburn
Company: Oil company
Attn: Zack Thomas
Address:

Project #: Project Owner: MDC
Project Name: Sam Lorenzo SWD
Project Location: D-ADKINS

City: State: zip: Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D. H403437

(G)RAB OR (C)OMP. # CONTAINERS MATRIX PRESERV. SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
H403437	W-1	G	5										11/6/14	1125
	W-2	G	5										11/6	1150
	W-3	G	5										11/6	1215

TOTAL chlorides
BTX
TPH

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Relinquished By: [Signature]

Date: Time: Received By: [Signature]

Date: Time: Received By: [Signature]

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

Delivered By: (Circle One)
 Sampler - UPS Bus Other:
 Date: 11/14/14 Time: 1:00 PM
 Received By: [Signature]
 Sample Condition: Good Intact
 Yes No
 Checked By: [Signature] (Initials)

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326