

October 12, 2017

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

RE: VEGA 9

Enclosed are the results of analyses for samples received by the laboratory on 10/10/17 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: A - 2' (H702729-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/11/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	<10.0	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	78.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.4	% 34.7-15	7						

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Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: B - 2' (H702729-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 72-148							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	<10.0	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	79.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.2	% 34.7-15	7						

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Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: C - 2' (H702729-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/11/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	<10.0	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	82.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.5	% 34.7-15	7						

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Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: D - 5' (H702729-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 72-148							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	<10.0	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	82.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.8	% 34.7-15	7						

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Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: E - 2' (H702729-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 72-148							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	<10.0	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	83.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.1	% 34.7-15	7						

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Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: F - 2' (H702729-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	<10.0	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	75.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.5	% 34.7-15	7						

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Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	VEGA 9	Sampling Condition:	Cool & Intact
Project Number:	701162.086.01	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS		

Sample ID: G - 10' (H702729-07)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/11/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2017	ND	189	94.5	200	0.0667	
DRO >C10-C28	594	10.0	10/11/2017	ND	200	100	200	3.93	
EXT DRO >C28-C36	113	10.0	10/11/2017	ND					
Surrogate: 1-Chlorooctane	79.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.5	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Celey D. Keene, Lab Director/Quality Manager

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Company Name: Talon/LPE <u>PLEASE NOTE:</u> Lieblity and Barnages. Cantinat's lieblity and ellent's e analyses. All claims including those for negligence and any other cause spryles, in na eventenal Cardinal be lieble for incidental or consequent city: Artesia Address: 408 W. Texas Ave. Project Manager: Belinquished By: Relinquished By: Phone #: 575-746-8768 Sampler - UPS - Bus - Others Sampler Name: Project # 70 4702729 Project Location: Project Name: Delivered By: (Circle One) FOR LAB USE ONLY Lab LD. 00 FW \mathcal{N} rising out of or related to the performance of ser 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 10-9% Q 0 L aco Cardinal's liability and elibrit's exclusive remedy for any claim ad 0 acce Sample I.D. わ all'a adkins (0 4 S 0 Orrelled 30 Times 10 Project Owner: (marck Pax来 575-746-8905 NN Time: State: NM Zip: 88210 10/14 *** 15.55° 00 0 0 5 00 (GIRAB OR (C)OMP. Received By: # CONTAINERS GROUNDWATER Cool Intact Sample Condition WASTEWATER based in contract of tort, MATRIX 4 SOIL L 2 OIL ntract or tort, shall be limited in the annount paid by the client for the ty and repekted by Cardinal Within 30 days after completion of the app (annot be shown in our of profile insurred by client, its subsidiaries, tains to breact income on the form SLUDGE State: City: Attn: P.O. 共: OTHER : Fax # Phone #: Address: Company: ACID/BASE: PRESERV 2 2 ICE /.COOL CHECKED BY: Σ 2 C.HN 三日二日二日 (Initials) OTHER : Talon/LPE Zip: 20/10/1 DATE SAMPLING Phone Result: Fax Result; REMARKS: 1120 ٠ 1290 351 1130 45 04) TIME 125 2 2 2 2 :1 د 2 Yes lorides 4 2 5 2 II No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aborator NUL SULL

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