

July 15, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HACKBERRY 18 FED. NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 07/14/15 12:07.

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 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.

Celey D. Keine

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



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

Received:

07/14/2015

Reported:

07/15/2015

Project Name:

HACKBERRY 18 FED. NO. 1

Project Number:

700794.025.01

Project Location:

S18-T19S-R31E

Sampling Date:

Date: 07/14/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: S-1 5' (H501785-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.06	0.500	07/14/2015	ND	2.33	117	2.00	1.08	
Toluene*	17.6	0.500	07/14/2015	ND	2.08	104	2.00	0.678	
Ethylbenzene*	15.9	0.500	07/14/2015	ND	2.00	99.8	2.00	1.45	
Total Xylenes*	30.6	1.50	07/14/2015	ND	5.89	98.2	6.00	1.65	
Total BTEX	65.2	3.00	07/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL)	140	% 85.6-13	7						
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	437	10.0	07/14/2015	ND	190	94.9	200	4.33	
DRO >C10-C28	1420	10.0	07/14/2015	ND	187	93.7	200	8.55	
Surrogate: 1-Chlorooctane	116	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	107	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim 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 whatsoever 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, without limitation, without limitation, subsiness interruptions, loss of use, or loss of profits incurred by client, its authority 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.

Celey D. Keine



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07/15/2015

Project Name:

HACKBERRY 18 FED. NO. 1

Project Number: Project Location: 700794.025.01

S18-T19S-R31E

Sampling Date:

07/14/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: S-1 6' (H501785-02)

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	07/14/2015	ND	2.33	117	2.00	1.08	
Toluene*	<0.050	0.050	07/14/2015	ND	2.08	104	2.00	0.678	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.00	99.8	2.00	1.45	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	5.89	98.2	6.00	1.65	
Total BTEX	<0.300	0.300	07/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 85.6-13	7						
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	07/14/2015	ND	190	94.9	200	4.33	
DRO >C10-C28	<10.0	10.0	07/14/2015	ND	187	93.7	200	8.55	
Surrogate: 1-Chlorooctane	87.8 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.4	% 52.1-17	6						

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Celeg Ditiene

Celey D. Keene, Lab Director/Quality Manager



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Received:

07/14/2015

Sampling Date:

07/14/2015

Reported:

Sampling Type:

Soil

07/15/2015

Project Name:

HACKBERRY 18 FED. NO. 1

Sampling Condition:

Cool & Intact

Project Number: Project Location: 700794.025.01 S18-T19S-R31E Sample Received By:

Celey D. Keene

Sample ID: S-2 3' (H501785-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	39.0	10.0	07/14/2015	ND	2.33	117	2.00	1.08	
Toluene*	287	10.0	07/14/2015	ND	2.08	104	2.00	0.678	
Ethylbenzene*	123	10.0	07/14/2015	ND	2.00	99.8	2.00	1.45	
Total Xylenes*	200	30.0	07/14/2015	ND	5.89	98.2	6.00	1.65	
Total BTEX	649	60.0	07/14/2015	ND					
				NET					

Surrogate: 4-Bromofl.	uorobenzene (PID
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117 % 85.6-137

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	4160	50.0	07/14/2015	ND	190	94.9	200	4.33	
DRO >C10-C28	6270	50.0	07/14/2015	ND	187	93.7	200	8.55	

Surrogate: 1-Chlorooctane

144 %

47.2-157

Surrogate: 1-Chlorooctadecane

146 %

52.1-176

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



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700794.025.01

Project Location:

S18-T19S-R31E

Sampling Date: Sampling Type: 07/14/2015

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: S-2 4' (H501785-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.297	0.050	07/14/2015	ND	2.33	117	2.00	1.08	
Toluene*	0.594	0.050	07/14/2015	ND	2.08	104	2.00	0.678	
Ethylbenzene*	0.188	0.050	07/14/2015	ND	2.00	99.8	2.00	1.45	
Total Xylenes*	0.253	0.150	07/14/2015	ND	5.89	98.2	6.00	1.65	
Total BTEX	1.33	0.300	07/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 85.6-13	7						
TPH 8015M	mg/	kg	Analyze	d By: MS					er
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.5	10.0	07/14/2015	ND	190	94.9	200	4.33	
DRO >C10-C28	15.6	10.0	07/14/2015	ND	187	93.7	200	8.55	
Surrogate: 1-Chlorooctane	97.0	% 47.2-15	7						·
Surrogate: 1-Chlorooctadecane	105 9	6 52.1-17	6						

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Project Number:

700794.025.01

Project Location:

S18-T19S-R31E

Sampling Date:

07/14/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: S-2 5' (H501785-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.109	0.050	07/14/2015	ND	2.33	117	2.00	1.08	
Toluene*	0.182	0.050	07/14/2015	ND	2.08	104	2.00	0.678	
Ethylbenzene*	0.066	0.050	07/14/2015	ND	2.00	99.8	2.00	1,45	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	5.89	98.2	6.00	1.65	
Total BTEX	0.357	0.300	07/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 85.6-13	7						
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	07/14/2015	ND	190	94.9	200	4.33	
DRO >C10-C28	<10.0	10.0	07/14/2015	ND	187	93.7	200	8.55	
Surrogate: 1-Chlorooctane	89.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.1	% 52.1-17	6						

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Celeg & Keine



Notes and Definitions

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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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: () // (60)	P.O. #:	
Address: 408 W. Texas Ave.	Company: Talon/LPE	
City: Artesia State: NM zip: 88210		
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:	
Project #: Project Owner: DCVON	City:	
Project Name: HAULBONY Q Fod #	State: Zip:	
Project Location: 5 18 - T 195 - R 31 E	Phone #:	
Sampler Name: 5, Hitch co61	Fax #:	
П	MATRIX PRESERV SAMPLING	
R (C)OMP NERS WATER		
(G)RAB OI # CONTAIN GROUNDY WASTEWA	DIL SLUDGE DTHER: ACID/BASSI CE/COOL DTHER: DATE	
-	1 51/41/2	
5-16	/ / 50:01	
5-2)	4:00	
12-5	1 20:3	
63 5-5 5	1 416/	
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Affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors. Relinquished By: Date Received By:	of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or cherk, as subsidiaries, Date Phone Result: Yes	1
Time: 107		□ No
Relinquished By: Date: Received By:	Rush	
Delivered By: (Circle One) Sample	CHECKED BY:	
Sampler - UPS - Bus - Other: 3 4 Types Types The Types Types Types The Types Types The Types Types The Types Types Types The	Try Yes	