

APPENDIX III

LABORATORY RESULTS

February 19, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NB TWEEN ST #1

Enclosed are the results of analyses for samples received by the laboratory on 02/15/17 13:05.

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/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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/15/2017
 Reported: 02/19/2017
 Project Name: NB TWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/15/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-8 0' (H700388-01)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/17/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIB) 98.6 % 73.6-140

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	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	12.7	10.0	02/16/2017	ND	203	102	200	6.69	

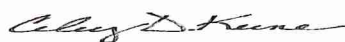
Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 98.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 408 W. TEXAS AVE.
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 Fax To: (575) 745-8905

 Received: 02/15/2017
 Reported: 02/19/2017
 Project Name: NB TWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/15/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-8 0.5' (H700388-02)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/17/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 73.6-140

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	02/16/2017	ND	193	96.5	200	7.02		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69		

Surrogate: 1-Chlorooctane 75.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.7 % 28-171

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 Received: 02/15/2017
 Reported: 02/19/2017
 Project Name: NB TWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/15/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-8 1' (H700388-03)

BTEX 8021B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	0.421				
Toluene*	<0.050	0.050	02/17/2017	ND	1.81	90.4	2.00	0.542				
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.81	90.7	2.00	1.02				
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.19	86.4	6.00	1.12				
Total BTEX	<0.300	0.300	02/17/2017	ND								

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

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	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	

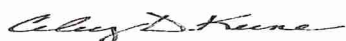
Surrogate: 1-Chlorooctane 81.2 % 35-147

Surrogate: 1-Chlorooctadecane 88.8 % 28-171

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 Fax To: (575) 745-8905

 Received: 02/15/2017
 Reported: 02/19/2017
 Project Name: NB TWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/15/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-9 0' (H700388-04)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/17/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/17/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

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	02/16/2017	ND	193	96.5	200	7.02		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69		

Surrogate: 1-Chlorooctane 68.6 % 35-147

Surrogate: 1-Chlorooctadecane 79.1 % 28-171

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Received: 02/15/2017
Reported: 02/19/2017
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 02/15/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-9 0.5' (H700388-05)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/18/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

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	02/16/2017	ND	191	95.6	200	4.88		
DRO >C10-C28	21.8	10.0	02/16/2017	ND	203	101	200	5.46		

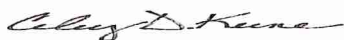
Surrogate: 1-Chlorooctane 91.0 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/15/2017
Reported: 02/19/2017
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 02/15/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-9 1' (H700388-06)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/18/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.6-140

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	02/16/2017	ND	191	95.6	200	4.88		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	101	200	5.46		

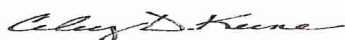
Surrogate: 1-Chlorooctane 81.4 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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

Received: 02/15/2017
Reported: 02/19/2017
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 02/15/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-10 0' (H700388-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/18/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.19	86.4	6.00	1.12		
Total BTEx	<0.300	0.300	02/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PII) 99.2 % 73.6-140

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	02/16/2017	ND	191	95.6	200	4.88		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	101	200	5.46		

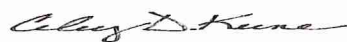
Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

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KIMBERLY WILSON
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/15/2017
Reported: 02/19/2017
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 02/15/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-10 0.5' (H700388-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/18/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.19	86.4	6.00	1.12		
Total BTEx	<0.300	0.300	02/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

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	02/16/2017	ND	191	95.6	200	4.88		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	101	200	5.46		

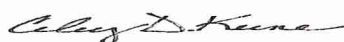
Surrogate: 1-Chlorooctane 76.8 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 28-171

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 KIMBERLY WILSON
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 Fax To: (575) 745-8905

 Received: 02/15/2017
 Reported: 02/19/2017
 Project Name: NB TWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/15/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-10 1' (H700388-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/18/2017	ND	1.94	96.9	2.00	0.421		
Toluene*	<0.050	0.050	02/18/2017	ND	1.81	90.4	2.00	0.542		
Ethylbenzene*	<0.050	0.050	02/18/2017	ND	1.81	90.7	2.00	1.02		
Total Xylenes*	<0.150	0.150	02/18/2017	ND	5.19	86.4	6.00	1.12		
Total BTEX	<0.300	0.300	02/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.6-140

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	02/16/2017	ND	191	95.6	200	4.88		
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	101	200	5.46		

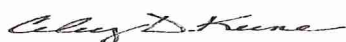
Surrogate: 1-Chlorooctane 77.8 % 35-147

Surrogate: 1-Chlorooctadecane 91.7 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

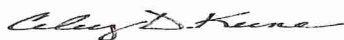
Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name: <u>Talton/LEE</u>				Bill To				ANALYSIS REQUEST					
Project Manager: <u>Kimberly M. Wilson</u>				P.O. #:									
Address: <u>408 W. Texas</u>				Company: <u>Talton</u>									
City: <u>Alameda</u>				Attn:									
State: <u>NM</u> Zip: <u>88210</u>				Address:									
Phone #: <u>746-8768</u> Fax #:				City:									
Project #:				State:									
Project Owner: <u>Apache</u>				Zip:									
Project Location: <u>NB-tween Edley City</u>				Phone #:									
Sampler Name: <u>Kim Wilson</u>				Fax #:									
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:					
								ACID/BASE: ICE / COOL OTHER:					
								DATE TIME					
H700998		S-8		0'		1				2/15/17		9:05	
		S-9		0.5'		1				9:09		1	
		S-10		0.5'		1				9:11		1	
		S-11		0.5'		1				9:15		1	
		S-12		0.5'		1				9:18		1	
		S-13		0.5'		1				9:20		1	
		S-14		0.5'		1				9:25		1	
		S-15		0.5'		1				9:28		1	
		S-16		0.5'		1				9:31		1	
		S-17		0.5'		1							
		S-18		0.5'		1							
		S-19		0.5'		1							
		S-20		0.5'		1							
		S-21		0.5'		1							
		S-22		0.5'		1							
		S-23		0.5'		1							
		S-24		0.5'		1							
		S-25		0.5'		1							
		S-26		0.5'		1							
		S-27		0.5'		1							
		S-28		0.5'		1							
		S-29		0.5'		1							
		S-30		0.5'		1							
		S-31		0.5'		1							
		S-32		0.5'		1							
		S-33		0.5'		1							
		S-34		0.5'		1							
		S-35		0.5'		1							
		S-36		0.5'		1							
		S-37		0.5'		1							
		S-38		0.5'		1							
		S-39		0.5'		1							
		S-40		0.5'		1							
		S-41		0.5'		1							
		S-42		0.5'		1							
		S-43		0.5'		1							
		S-44		0.5'		1							
		S-45		0.5'		1							
		S-46		0.5'		1							
		S-47		0.5'		1							
		S-48		0.5'		1							
		S-49		0.5'		1							
		S-50		0.5'		1							
		S-51		0.5'		1							
		S-52		0.5'		1							
		S-53		0.5'		1							
		S-54		0.5'		1							
		S-55		0.5'		1							
		S-56		0.5'		1							
		S-57		0.5'		1							
		S-58		0.5'		1							
		S-59		0.5'		1							
		S-60		0.5'		1							
		S-61		0.5'		1							
		S-62		0.5'		1							
		S-63		0.5'		1							
		S-64		0.5'		1							
		S-65		0.5'		1							
		S-66		0.5'		1							
		S-67		0.5'		1							
		S-68		0.5'		1							
		S-69		0.5'		1							
		S-70		0.5'		1							
		S-71		0.5'		1							
		S-72		0.5'		1							
		S-73		0.5'		1							
		S-74		0.5'		1							
		S-75		0.5'		1							
		S-76		0.5'		1							
		S-77		0.5'		1							
		S-78		0.5'		1							
		S-79		0.5'		1							
		S-80		0.5'		1							
		S-81		0.5'		1							
		S-82		0.5'		1							
		S-83		0.5'		1							
		S-84		0.5'		1							
		S-85		0.5'		1							
		S-86		0.5'		1							
		S-87		0.5'		1							
		S-88		0.5'		1							
		S-89		0.5'		1							
		S-90		0.5'		1							
		S-91		0.5'		1							
		S-92		0.5'		1							
		S-93		0.5'		1							
		S-94		0.5'		1							
		S-95		0.5'		1							
		S-96		0.5'		1							
		S-97		0.5'		1							
		S-98		0.5'		1							
		S-99		0.5'		1							
		S-100		0.5'		1							

February 21, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: N B TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 02/13/17 11:00.

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/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,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/13/2017
 Reported: 02/21/2017
 Project Name: N B TWEEN
 Project Number: 700745.076.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H700359-01)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.00	1.00	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	15.0	1.00	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	37.6	1.00	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	72.8	3.00	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	126	6.00	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 73.6-140

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	2090	50.0	02/15/2017	ND	200	99.8	200	6.46	
DRO >C10-C28	10500	50.0	02/15/2017	ND	216	108	200	8.68	

Surrogate: 1-Chlorooctane 159 % 35-147

Surrogate: 1-Chlorooctadecane 158 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 .5' (H700359-02)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.24	1.00	02/15/2017	ND	1.89	94.3	2.00	1.60	
Toluene*	17.9	1.00	02/15/2017	ND	1.77	88.6	2.00	1.12	
Ethylbenzene*	45.8	1.00	02/15/2017	ND	1.78	89.1	2.00	1.15	
Total Xylenes*	86.6	3.00	02/15/2017	ND	5.10	85.1	6.00	1.34	
Total BTEX	152	6.00	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 73.6-140

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	2210	50.0	02/15/2017	ND	200	99.8	200	6.46	
DRO >C10-C28	8260	50.0	02/15/2017	ND	216	108	200	8.68	

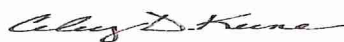
Surrogate: 1-Chlorooctane 157 % 35-147

Surrogate: 1-Chlorooctadecane 189 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H700359-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/19/2017	ND	1.89	94.3	2.00	1.60		
Toluene*	0.087	0.050	02/19/2017	ND	1.77	88.6	2.00	1.12		
Ethylbenzene*	<0.050	0.050	02/19/2017	ND	1.78	89.1	2.00	1.15		
Total Xylenes*	0.392	0.150	02/19/2017	ND	5.10	85.1	6.00	1.34		
Total BTEX	0.480	0.300	02/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.8	10.0	02/15/2017	ND	184	92.2	200	2.75	
DRO >C10-C28	460	10.0	02/15/2017	ND	197	98.6	200	4.47	QM-07, QR-03

Surrogate: 1-Chlorooctane 89.8 % 35-147

Surrogate: 1-Chlorooctadecane 98.6 % 28-171

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Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H700359-04)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.03	2.00	02/15/2017	ND	2.00	100	2.00	0.676	QM-07, QR-03
Toluene*	62.1	2.00	02/15/2017	ND	1.88	94.1	2.00	1.00	QM-07, QR-03
Ethylbenzene*	87.7	2.00	02/15/2017	ND	1.89	94.3	2.00	0.545	QM-07
Total Xylenes*	158	6.00	02/15/2017	ND	5.38	89.7	6.00	0.496	QM-07
Total BTEX	313	12.0	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

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	3550	50.0	02/15/2017	ND	184	92.2	200	2.75	
DRO >C10-C28	12600	50.0	02/15/2017	ND	197	98.6	200	4.47	


Surrogate: 1-Chlorooctane 262 % 35-147

Surrogate: 1-Chlorooctadecane 324 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 .5' (H700359-05)

BTEX 8021B		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.21	1.00	02/15/2017	ND	2.00	100	2.00	0.676		
Toluene*	25.5	1.00	02/15/2017	ND	1.88	94.1	2.00	1.00		
Ethylbenzene*	59.6	1.00	02/15/2017	ND	1.89	94.3	2.00	0.545		
Total Xylenes*	112	3.00	02/15/2017	ND	5.38	89.7	6.00	0.496		
Total BTEX	198	6.00	02/15/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1040	50.0	02/15/2017	ND	184	92.2	200	2.75		
DRO >C10-C28	4990	50.0	02/15/2017	ND	197	98.6	200	4.47		

Surrogate: 1-Chlorooctane 116 % 35-147

Surrogate: 1-Chlorooctadecane 143 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/13/2017
 Reported: 02/21/2017
 Project Name: N B TWEEN
 Project Number: 700745.076.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H700359-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2017	ND	2.00	100	2.00	0.676		
Toluene*	<0.050	0.050	02/15/2017	ND	1.88	94.1	2.00	1.00		
Ethylbenzene*	0.064	0.050	02/15/2017	ND	1.89	94.3	2.00	0.545		
Total Xylenes*	<0.150	0.150	02/15/2017	ND	5.38	89.7	6.00	0.496		
Total BTEX	<0.300	0.300	02/15/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.6-140

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	02/15/2017	ND	184	92.2	200	2.75		
DRO >C10-C28	65.7	10.0	02/15/2017	ND	197	98.6	200	4.47		

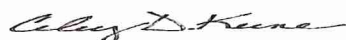
Surrogate: 1-Chlorooctane 84.2 % 35-147

Surrogate: 1-Chlorooctadecane 92.5 % 28-171

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Celest D. Keene, Lab Director/Quality Manager

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

 Received: 02/13/2017
 Reported: 02/21/2017
 Project Name: N B TWEEN
 Project Number: 700745.076.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H700359-07)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.5	2.00	02/15/2017	ND	2.00	100	2.00	0.676	
Toluene*	154	2.00	02/15/2017	ND	1.88	94.1	2.00	1.00	
Ethylbenzene*	179	2.00	02/15/2017	ND	1.89	94.3	2.00	0.545	
Total Xylenes*	302	6.00	02/15/2017	ND	5.38	89.7	6.00	0.496	
Total BTEX	651	12.0	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

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	7510	50.0	02/15/2017	ND	184	92.2	200	2.75	
DRO >C10-C28	20700	50.0	02/15/2017	ND	197	98.6	200	4.47	

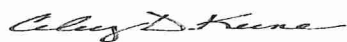
Surrogate: 1-Chlorooctane 250 % 35-147

Surrogate: 1-Chlorooctadecane 233 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 .5' (H700359-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	02/15/2017	ND	2.00	100	2.00	0.676		
Toluene*	1.73	0.200	02/15/2017	ND	1.88	94.1	2.00	1.00		
Ethylbenzene*	4.93	0.200	02/15/2017	ND	1.89	94.3	2.00	0.545		
Total Xylenes*	10.2	0.600	02/15/2017	ND	5.38	89.7	6.00	0.496		
Total BTEX	16.8	1.20	02/15/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 128 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	476	50.0	02/15/2017	ND	184	92.2	200	2.75		
DRO >C10-C28	3510	50.0	02/15/2017	ND	197	98.6	200	4.47		

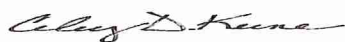
Surrogate: 1-Chlorooctane 136 % 35-147

Surrogate: 1-Chlorooctadecane 133 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H700359-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2017	ND	2.00	100	2.00	0.676		
Toluene*	<0.050	0.050	02/15/2017	ND	1.88	94.1	2.00	1.00		
Ethylbenzene*	0.095	0.050	02/15/2017	ND	1.89	94.3	2.00	0.545		
Total Xylenes*	0.278	0.150	02/15/2017	ND	5.38	89.7	6.00	0.496		
Total BTEx	0.373	0.300	02/15/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73.6-140

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	02/15/2017	ND	184	92.2	200	2.75		
DRO >C10-C28	315	10.0	02/15/2017	ND	197	98.6	200	4.47		

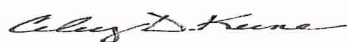
Surrogate: 1-Chlorooctane 89.1 % 35-147

Surrogate: 1-Chlorooctadecane 95.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0' (H700359-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2017	ND	2.00	100	2.00	0.676		
Toluene*	0.056	0.050	02/15/2017	ND	1.88	94.1	2.00	1.00		
Ethylbenzene*	0.126	0.050	02/15/2017	ND	1.89	94.3	2.00	0.545		
Total Xylenes*	0.281	0.150	02/15/2017	ND	5.38	89.7	6.00	0.496		
Total BTEX	0.463	0.300	02/15/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	43.5	10.0	02/15/2017	ND	184	92.2	200	2.75		
DRO >C10-C28	1140	10.0	02/15/2017	ND	197	98.6	200	4.47		

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/13/2017
 Reported: 02/21/2017
 Project Name: N B TWEEN
 Project Number: 700745.076.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 .5' (H700359-11)

BTEx 8021B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	02/15/2017	ND	2.00	100	2.00	0.676				
Toluene*	<0.050	0.050	02/15/2017	ND	1.88	94.1	2.00	1.00				
Ethylbenzene*	<0.050	0.050	02/15/2017	ND	1.89	94.3	2.00	0.545				
Total Xylenes*	<0.150	0.150	02/15/2017	ND	5.38	89.7	6.00	0.496				
Total BTEx	<0.300	0.300	02/15/2017	ND								

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

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	02/15/2017	ND	184	92.2	200	2.75	
DRO >C10-C28	89.7	10.0	02/15/2017	ND	197	98.6	200	4.47	

Surrogate: 1-Chlorooctane 98.1 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H700359-12)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2017	ND	2.00	100	2.00	0.676	
Toluene*	0.206	0.050	02/15/2017	ND	1.88	94.1	2.00	1.00	
Ethylbenzene*	0.436	0.050	02/15/2017	ND	1.89	94.3	2.00	0.545	
Total Xylenes*	1.10	0.150	02/15/2017	ND	5.38	89.7	6.00	0.496	
Total BTEX	1.75	0.300	02/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 73.6-140

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	61.5	10.0	02/15/2017	ND	184	92.2	200	2.75	
DRO >C10-C28	788	10.0	02/15/2017	ND	197	98.6	200	4.47	

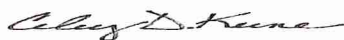
Surrogate: 1-Chlorooctane 88.3 % 35-147

Surrogate: 1-Chlorooctadecane 95.4 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2017
Reported: 02/21/2017
Project Name: N B TWEEN
Project Number: 700745.076.01
Project Location: EDDY COUNTY, NM

Sampling Date: 02/10/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 0' (H700359-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	37.2	2.00	02/16/2017	ND	2.00	100	2.00	0.676		
Toluene*	268	2.00	02/16/2017	ND	1.88	94.1	2.00	1.00		
Ethylbenzene*	253	2.00	02/16/2017	ND	1.89	94.3	2.00	0.545		
Total Xylenes*	419	6.00	02/16/2017	ND	5.38	89.7	6.00	0.496		
Total BTX	978	12.0	02/16/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

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	11200	50.0	02/15/2017	ND	181	90.7	200	0.745	
DRO >C10-C28	34700	50.0	02/15/2017	ND	198	98.8	200	2.04	

Surrogate: 1-Chlorooctane 302 % 35-147

Surrogate: 1-Chlorooctadecane 358 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

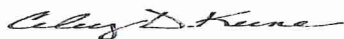
Notes and Definitions

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

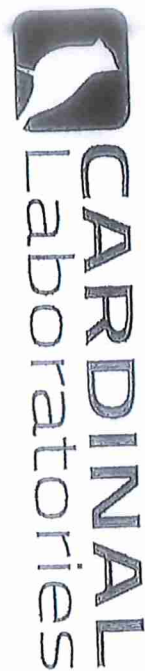


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

182

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2328.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:	
Project Manager: L. W. J. Son		Company: Apple	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		Address:	
Phone #: 575-746-8768		City:	
Fax #: 575-746-8905		State:	
Project #: 700745.076.01		Zip:	
Project Name: N13 Turner		Phone #:	
Project Location: Eddy County		Fax #:	
Sample Name: R-2-Rosin		PRESERV.	
FOR LAB USE ONLY		SAMPLING	
Lab I.D.	Sample I.D.		
H700359			
10	5-4	DATE	
11	5-1	TIME	
12	5-5		
13	5-5		
14	5-5		
15	5-5		
16	5-5		
17	5-5		
18	5-5		
19	5-5		
20	5-5		
REMARKS:		TPH	
		BTEX	
Relinquished By: [Signature]		Date: 2/13/17	
Received By: [Signature]		Time: 9:00a	
Delivered By: (Circle One) #75 494		Sample Condition	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
CHECKED BY: [Signature]		Add'l Phone #:	
		Add'l Fax #:	

March 27, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NB TWEEN #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/23/17 10:10.

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/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

Analytical Results For:

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

Received:	03/23/2017	Sampling Date:	03/22/2017
Reported:	03/27/2017	Sampling Type:	Soil
Project Name:	NB TWEEN #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700745.076.01	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: S-5 0.5' R (H700759-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	231	10.0	03/24/2017	ND	1.83	91.4	2.00	0.535		
Toluene*	576	10.0	03/24/2017	ND	1.75	87.6	2.00	0.779		
Ethylbenzene*	267	10.0	03/24/2017	ND	1.77	88.6	2.00	0.396		
Total Xylenes*	379	30.0	03/24/2017	ND	5.08	84.6	6.00	0.267		
Total BTX	1450	60.0	03/24/2017	ND						

Surrogate: 4-Bromofluorobenzene (PII) 106 % 72-148

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	13000	50.0	03/23/2017	ND	188	94.2	200	2.64		
DRO >C10-C28	20100	50.0	03/23/2017	ND	199	99.6	200	0.0216		

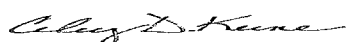
Surrogate: 1-Chlorooctane 276 % 25.1-158

Surrogate: 1-Chlorooctadecane 223 % 26.8-170

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/23/2017	Sampling Date:	03/22/2017
Reported:	03/27/2017	Sampling Type:	Soil
Project Name:	NB TWEEN #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700745.076.01	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: S-6 2' (H700759-02)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.51	0.500	03/24/2017	ND	1.83	91.4	2.00	0.535	
Toluene*	23.5	0.500	03/24/2017	ND	1.75	87.6	2.00	0.779	
Ethylbenzene*	23.5	0.500	03/24/2017	ND	1.77	88.6	2.00	0.396	
Total Xylenes*	42.5	1.50	03/24/2017	ND	5.08	84.6	6.00	0.267	
Total BTEX	92.9	3.00	03/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 72-148

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	1160	50.0	03/23/2017	ND	188	94.2	200	2.64	
DRO >C10-C28	3780	50.0	03/23/2017	ND	199	99.6	200	0.0216	

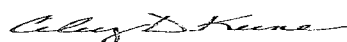
Surrogate: 1-Chlorooctane 180 % 25.1-158

Surrogate: 1-Chlorooctadecane 82.5 % 26.8-170

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/23/2017	Sampling Date:	03/22/2017
Reported:	03/27/2017	Sampling Type:	Soil
Project Name:	NB TWEEN #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700745.076.01	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: S-6 3' (H700759-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.119	0.050	03/24/2017	ND	1.83	91.4	2.00	0.535	
Toluene*	0.419	0.050	03/24/2017	ND	1.75	87.6	2.00	0.779	
Ethylbenzene*	0.422	0.050	03/24/2017	ND	1.77	88.6	2.00	0.396	
Total Xylenes*	0.879	0.150	03/24/2017	ND	5.08	84.6	6.00	0.267	
Total BTX	1.84	0.300	03/24/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 72-148

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.1	10.0	03/23/2017	ND	188	94.2	200	2.64	
DRO >C10-C28	206	10.0	03/23/2017	ND	199	99.6	200	0.0216	

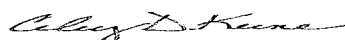
Surrogate: 1-Chlorooctane 102 % 25.1-158

Surrogate: 1-Chlorooctadecane 100 % 26.8-170

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/23/2017	Sampling Date:	03/22/2017
Reported:	03/27/2017	Sampling Type:	Soil
Project Name:	NB TWEEN #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700745.076.01	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: S-6 4' (H700759-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.110	0.050	03/24/2017	ND	1.83	91.4	2.00	0.535		
Toluene*	0.273	0.050	03/24/2017	ND	1.75	87.6	2.00	0.779		
Ethylbenzene*	0.224	0.050	03/24/2017	ND	1.77	88.6	2.00	0.396		
Total Xylenes*	0.453	0.150	03/24/2017	ND	5.08	84.6	6.00	0.267		
Total BTEX	1.06	0.300	03/24/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

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	03/23/2017	ND	188	94.2	200	2.64		
DRO >C10-C28	20.5	10.0	03/23/2017	ND	199	99.6	200	0.0216		

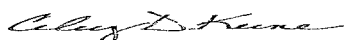
Surrogate: 1-Chlorooctane 88.1 % 25.1-158

Surrogate: 1-Chlorooctadecane 92.9 % 26.8-170

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/23/2017	Sampling Date:	03/22/2017
Reported:	03/27/2017	Sampling Type:	Soil
Project Name:	NB TWEEN #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700745.076.01	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: S-6 5' (H700759-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.059	0.050	03/24/2017	ND	1.83	91.4	2.00	0.535		
Toluene*	0.154	0.050	03/24/2017	ND	1.75	87.6	2.00	0.779		
Ethylbenzene*	0.122	0.050	03/24/2017	ND	1.77	88.6	2.00	0.396		
Total Xylenes*	0.284	0.150	03/24/2017	ND	5.08	84.6	6.00	0.267		
Total BTX	0.619	0.300	03/24/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

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	03/24/2017	ND	188	94.2	200	2.64		
DRO >C10-C28	108	10.0	03/24/2017	ND	199	99.6	200	0.0216		

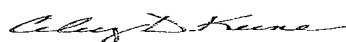
Surrogate: 1-Chlorooctane 99.7 % 25.1-158

Surrogate: 1-Chlorooctadecane 99.6 % 26.8-170

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Celey D. Keene, Lab Director/Quality Manager

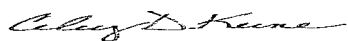
Notes and Definitions

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.
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

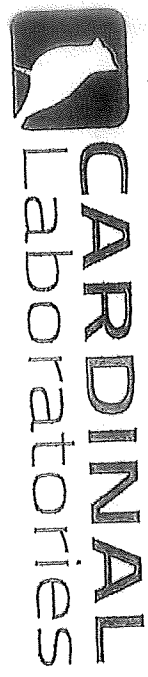
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Celey D. Keene, Lab Director/Quality Manager



Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88246
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

Company Name: Talon/LE
Project Manager: Kimberly Wilson
Address: 408 W. Texas Ave.
City: Artesia
Phone #: 575-746-8768
Fax #: 575-746-8905
State: NM Zip: 88210
Project #: 700745-016.07
Project Owner: Apache
Project Name: NB Green #1 Battery
Project Location: Siding City
Sample Name: Skin 10/19/97
P.O. #: _____
Company: Apache
Address: _____
City: _____
State: _____ Zip: _____
Phone #: _____
Fax #: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	MATRIX										DATE	TIME	ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Relinquished By: _____ Received By: _____
Date: 3/23/17
Time: 10:10
Sample Condition: ☒ Intact ☐ Broken
Delivered By: (Circle One) _____
Sampler - UPS - Bus - Other: _____
CHECKED BY: _____ (Initials)
Fax Result: ☐ Yes ☐ No
Adel Phone #: _____
Adel Fax #: _____

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