



# PRELIMINARY RESULTS

March 29, 2018

GREG GREGSON

MARK L. SHIDLER

1313 CAMPBELL ROAD BLDG. D

HOUSTON, TX 77055

RE: NM STATE I-30

Enclosed are the results of analyses for samples received by the laboratory on 03/23/18 13:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://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:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 1 A @ SURFACE (H800843-01)**

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	03/26/2018	ND	1.64	82.0	2.00	1.88		
Toluene*	<0.050	0.050	03/26/2018	ND	1.92	96.1	2.00	1.68		
Ethylbenzene*	<0.050	0.050	03/26/2018	ND	2.01	101	2.00	1.53		
Total Xylenes*	<0.150	0.150	03/26/2018	ND	5.89	98.2	6.00	2.12		
Total BTEX	<0.300	0.300	03/26/2018	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>3400</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/26/2018	ND	205	103	200	6.45		
DRO >C10-C28*	<10.0	10.0	03/26/2018	ND	221	111	200	8.20		
EXT DRO >C28-C36	<10.0	10.0	03/26/2018	ND						

*Surrogate: 1-Chlorooctane 87.3 % 41-142*
*Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 1 B @ 6" (H800843-02)**

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	03/26/2018	ND	1.64	82.0	2.00	1.88		
Toluene*	<0.050	0.050	03/26/2018	ND	1.92	96.1	2.00	1.68		
Ethylbenzene*	<0.050	0.050	03/26/2018	ND	2.01	101	2.00	1.53		
Total Xylenes*	<0.150	0.150	03/26/2018	ND	5.89	98.2	6.00	2.12		
Total BTEX	<0.300	0.300	03/26/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/26/2018	ND	205	103	200	6.45		
DRO >C10-C28*	<10.0	10.0	03/26/2018	ND	221	111	200	8.20		
EXT DRO >C28-C36	<10.0	10.0	03/26/2018	ND						

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 94.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 2 A @ SURFACE (H800843-03)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	QR-03
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	QR-03
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	QR-03
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2560</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/26/2018	ND	205	103	200	6.45	
<b>DRO &gt;C10-C28*</b>	<b>90.2</b>	10.0	03/26/2018	ND	221	111	200	8.20	
<b>EXT DRO &gt;C28-C36</b>	<b>74.2</b>	10.0	03/26/2018	ND					

Surrogate: 1-Chlorooctane 73.1 % 41-142

Surrogate: 1-Chlorooctadecane 81.4 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 2 B @ 6" (H800843-04)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504		
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734		
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336		
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31		
Total BTEX	<0.300	0.300	03/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/26/2018	ND	205	103	200	6.45		
<b>DRO &gt;C10-C28*</b>	<b>13.9</b>	10.0	03/26/2018	ND	221	111	200	8.20		
EXT DRO >C28-C36	<10.0	10.0	03/26/2018	ND						

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.0 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 3 A @ SURFACE (H800843-05)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1520</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/26/2018	ND	205	103	200	6.45	
<b>DRO &gt;C10-C28*</b>	<b>32.4</b>	10.0	03/26/2018	ND	221	111	200	8.20	
<b>EXT DRO &gt;C28-C36</b>	<b>18.1</b>	10.0	03/26/2018	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 3 B @ 6" (H800843-06)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504		
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734		
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336		
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31		
Total BTEX	<0.300	0.300	03/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/26/2018	ND	205	103	200	6.45		
DRO >C10-C28*	<10.0	10.0	03/26/2018	ND	221	111	200	8.20		
EXT DRO >C28-C36	<10.0	10.0	03/26/2018	ND						

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.7 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 4 A @ SURFACE (H800843-07)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>18800</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/26/2018	ND	193	96.5	200	6.97	
<b>DRO &gt;C10-C28*</b>	<b>20.9</b>	10.0	03/26/2018	ND	209	105	200	13.0	QM-07
EXT DRO >C28-C36	<10.0	10.0	03/26/2018	ND					

Surrogate: 1-Chlorooctane 68.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.8 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 4 B @ 6" (H800843-08)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/26/2018	ND	193	96.5	200	6.97	
<b>DRO &gt;C10-C28*</b>	<b>37.1</b>	10.0	03/26/2018	ND	209	105	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	03/26/2018	ND					

*Surrogate: 1-Chlorooctane 85.8 % 41-142*
*Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 5 A @ SURFACE (H800843-09)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>27200</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	193	96.5	200	6.97	
<b>DRO &gt;C10-C28*</b>	<b>1240</b>	10.0	03/27/2018	ND	209	105	200	13.0	
<b>EXT DRO &gt;C28-C36</b>	<b>396</b>	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 5 B @ 6" (H800843-10)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1100</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	193	96.5	200	6.97	
DRO >C10-C28*	<10.0	10.0	03/27/2018	ND	209	105	200	13.0	
<b>EXT DRO &gt;C28-C36</b>	<b>17.6</b>	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 78.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.3 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 6 A @ SURFACE (H800843-11)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>22000</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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*	<10.0	10.0	03/27/2018	ND	193	96.5	200	6.97		
<b>DRO &gt;C10-C28*</b>	<b>3880</b>	10.0	03/27/2018	ND	209	105	200	13.0		
<b>EXT DRO &gt;C28-C36</b>	<b>1710</b>	10.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 442 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 6 B @ 6" (H800843-12)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504		
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734		
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336		
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31		
Total BTEX	<0.300	0.300	03/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>768</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/27/2018	ND	229	115	200	4.74		
DRO >C10-C28*	<10.0	10.0	03/27/2018	ND	259	129	200	5.08		
EXT DRO >C28-C36	<10.0	10.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 7 A @ SURFACE (H800843-13)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8400</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	229	115	200	4.74	
<b>DRO &gt;C10-C28*</b>	<b>277</b>	10.0	03/27/2018	ND	259	129	200	5.08	
<b>EXT DRO &gt;C28-C36</b>	<b>150</b>	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 7 B @ 6" (H800843-14)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	229	115	200	4.74	
DRO >C10-C28*	<10.0	10.0	03/27/2018	ND	259	129	200	5.08	
<b>EXT DRO &gt;C28-C36</b>	<b>11.4</b>	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 8 A @ SURFACE (H800843-15)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>19200</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	229	115	200	4.74	
<b>DRO &gt;C10-C28*</b>	<b>57.7</b>	10.0	03/27/2018	ND	259	129	200	5.08	
<b>EXT DRO &gt;C28-C36</b>	<b>39.8</b>	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 8 B @ 6" (H800843-16)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>352</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	229	115	200	4.74	
DRO >C10-C28*	<10.0	10.0	03/27/2018	ND	259	129	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 9 A @ SURFACE (H800843-17)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>928</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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*	<50.0	50.0	03/27/2018	ND	229	115	200	4.74		
<b>DRO &gt;C10-C28*</b>	<b>7600</b>	50.0	03/27/2018	ND	259	129	200	5.08		
<b>EXT DRO &gt;C28-C36</b>	<b>3730</b>	50.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 80.1 % 41-142

Surrogate: 1-Chlorooctadecane 324 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 9 B @ 6" (H800843-18)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504	
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734	
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336	
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31	
Total BTEX	<0.300	0.300	03/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	03/26/2018	ND	432	108	400	0.00	

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	03/27/2018	ND	229	115	200	4.74	
<b>DRO &gt;C10-C28*</b>	<b>21.3</b>	10.0	03/27/2018	ND	259	129	200	5.08	
<b>EXT DRO &gt;C28-C36</b>	<b>32.7</b>	10.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 71.8 % 41-142

Surrogate: 1-Chlorooctadecane 69.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 10 A @ SURFACE (H800843-19)**

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	03/27/2018	ND	1.98	99.1	2.00	0.504		
Toluene*	<0.050	0.050	03/27/2018	ND	1.96	98.0	2.00	0.734		
Ethylbenzene*	<0.050	0.050	03/27/2018	ND	1.93	96.5	2.00	0.336		
Total Xylenes*	<0.150	0.150	03/27/2018	ND	6.04	101	6.00	1.31		
Total BTEX	<0.300	0.300	03/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>704</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/27/2018	ND	229	115	200	4.74		
<b>DRO &gt;C10-C28*</b>	<b>15.6</b>	10.0	03/27/2018	ND	259	129	200	5.08		
<b>EXT DRO &gt;C28-C36</b>	<b>15.4</b>	10.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 10 B @ 6" (H800843-20)**

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	03/28/2018	ND	2.41	120	2.00	2.51		
Toluene*	<0.050	0.050	03/28/2018	ND	2.37	119	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.31	116	2.00	1.34		
Total Xylenes*	<0.150	0.150	03/28/2018	ND	7.13	119	6.00	1.15		
Total BTEX	<0.300	0.300	03/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	03/26/2018	ND	432	108	400	0.00		

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	03/27/2018	ND	229	115	200	4.74		
<b>DRO &gt;C10-C28*</b>	<b>262</b>	10.0	03/27/2018	ND	259	129	200	5.08		
<b>EXT DRO &gt;C28-C36</b>	<b>68.9</b>	10.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 11 A @ SURFACE (H800843-21)**

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	03/28/2018	ND	2.41	120	2.00	2.51	
Toluene*	<0.050	0.050	03/28/2018	ND	2.37	119	2.00	2.13	
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.31	116	2.00	1.34	
Total Xylenes*	<0.150	0.150	03/28/2018	ND	7.13	119	6.00	1.15	
Total BTEX	<0.300	0.300	03/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>800</b>	16.0	03/26/2018	ND	448	112	400	0.00	

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*	<100	100	03/27/2018	ND	229	115	200	4.74		
<b>DRO &gt;C10-C28*</b>	<b>38800</b>	100	03/27/2018	ND	259	129	200	5.08		
<b>EXT DRO &gt;C28-C36</b>	<b>13600</b>	100	03/27/2018	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 3720 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 11 B @ 6" (H800843-22)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2018	ND	2.41	120	2.00	2.51	
<b>Toluene*</b>	<b>1.06</b>	0.050	03/28/2018	ND	2.37	119	2.00	2.13	
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.31	116	2.00	1.34	
<b>Total Xylenes*</b>	<b>9.53</b>	0.150	03/28/2018	ND	7.13	119	6.00	1.15	
<b>Total BTEX</b>	<b>10.6</b>	0.300	03/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3440</b>	16.0	03/26/2018	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>85.7</b>	50.0	03/27/2018	ND	229	115	200	4.74	
<b>DRO &gt;C10-C28*</b>	<b>1290</b>	50.0	03/27/2018	ND	259	129	200	5.08	
<b>EXT DRO &gt;C28-C36</b>	<b>621</b>	50.0	03/27/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 161 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 12 A @ SURFACE (H800843-23)**

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	03/28/2018	ND	2.41	120	2.00	2.51		
Toluene*	<0.050	0.050	03/28/2018	ND	2.37	119	2.00	2.13		
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.31	116	2.00	1.34		
Total Xylenes*	<0.150	0.150	03/28/2018	ND	7.13	119	6.00	1.15		
Total BTEX	<0.300	0.300	03/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>864</b>	16.0	03/26/2018	ND	448	112	400	0.00		

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*	<50.0	50.0	03/27/2018	ND	229	115	200	4.74			
<b>DRO &gt;C10-C28*</b>	<b>47700</b>	50.0	03/27/2018	ND	259	129	200	5.08			
<b>EXT DRO &gt;C28-C36</b>	<b>13500</b>	50.0	03/27/2018	ND							

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 4470 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 12 B @ 6" (H800843-24)**

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	03/28/2018	ND	2.41	120	2.00	2.51	
Toluene*	<0.050	0.050	03/28/2018	ND	2.37	119	2.00	2.13	
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.31	116	2.00	1.34	
Total Xylenes*	<0.150	0.150	03/28/2018	ND	7.13	119	6.00	1.15	
Total BTEX	<0.300	0.300	03/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	03/26/2018	ND	448	112	400	0.00	

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*	<50.0	50.0	03/27/2018	ND	229	115	200	4.74		
<b>DRO &gt;C10-C28*</b>	<b>4640</b>	50.0	03/27/2018	ND	259	129	200	5.08		
<b>EXT DRO &gt;C28-C36</b>	<b>1370</b>	50.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 546 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 13 A @ SURFACE (H800843-25)**

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	03/28/2018	ND	1.97	98.4	2.00	3.83		
Toluene*	<0.050	0.050	03/28/2018	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.02	101	2.00	2.61		
Total Xylenes*	<0.150	0.150	03/28/2018	ND	5.90	98.3	6.00	2.03		
Total BTEX	<0.300	0.300	03/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>17200</b>	16.0	03/26/2018	ND	448	112	400	0.00		

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	03/27/2018	ND	229	115	200	4.74		
<b>DRO &gt;C10-C28*</b>	<b>338</b>	10.0	03/27/2018	ND	259	129	200	5.08		
<b>EXT DRO &gt;C28-C36</b>	<b>188</b>	10.0	03/27/2018	ND						

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 133 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 MARK L. SHIDLER  
 GREG GREGSON  
 1313 CAMPBELL ROAD BLDG. D  
 HOUSTON TX, 77055  
 Fax To:

Received:	03/23/2018	Sampling Date:	03/23/2018
Reported:	03/29/2018	Sampling Type:	Soil
Project Name:	NM STATE I-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA		

**Sample ID: 13 B @ 6" (H800843-26)**

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	03/28/2018	ND	1.97	98.4	2.00	3.83	
Toluene*	<0.050	0.050	03/28/2018	ND	2.01	101	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/28/2018	ND	2.02	101	2.00	2.61	
Total Xylenes*	<0.150	0.150	03/28/2018	ND	5.90	98.3	6.00	2.03	
Total BTEX	<0.300	0.300	03/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2720</b>	16.0	03/26/2018	ND	448	112	400	0.00	

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	03/28/2018	ND	214	107	200	1.18	
<b>DRO &gt;C10-C28*</b>	<b>87.4</b>	10.0	03/28/2018	ND	226	113	200	0.178	
<b>EXT DRO &gt;C28-C36</b>	<b>36.1</b>	10.0	03/28/2018	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

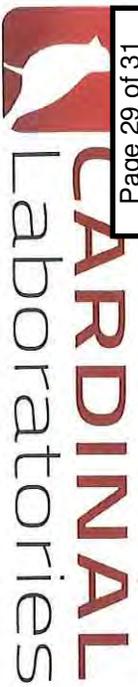
**Notes and Definitions**

- 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.
- 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



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Celey 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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: <u>MARK L. SHIDLER</u>		P.O. #:	
Project Manager: <u>Greg Greeneson</u>		Company:	
Address: <u>1313 Campbell Rd Bldg D</u>		Attn:	
City: <u>Houston</u> State: <u>TX</u> Zip: <u>77055</u>		Address:	
Phone #: <u>713-218-6487</u> Fax #: <u>713-224-5523</u>		City:	
Project #: _____ Project Owner: _____		State: _____ Zip: _____	
Project Name: <u>State 1-3D</u>		Phone #: _____	
Project Location: <u>State 1-3D</u>		Fax #: _____	
Sampler Name: <u>ARRY MOREHEAD</u>		PRESERV:	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H800843	1A @ Surface	G	1							3-23-18	9:00			
	1B @ 6"													
	2A @ Surface													
	2B @ 6"													
	3A @ Surface													
	3B @ 6"													
	4A @ Surface													
	4B @ 6"													
	5A @ Surface													
	5B @ 6"													

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Relinquished By: Greg Greeneson Date: 3-23-18 Time: 1:07 PM

Received By: Marlene Stalder

Delivered By: (Circle One) 0.42 Sample Condition:  Cool  Intact  Yes  No

Sampler - UPS - Bus - Other: Completed 0.35 CHECKED BY: MS

REMARKS: gregson@markshidlerinc.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

**BILL TO**

ANALYSIS REQUEST

Company Name: MARK L. SHIDLER P.O. #:  
 Project Manager: Greg Gregson Company:  
 Address: 1313 CAMPBELL RD Bldg D Attn:  
 City: Houston State: TX Zip: 77055  
 Phone #: 713-481-6487 Fax #: 713-224-5523 Address:  
 Project #: Project Owner: City:  
 Project Name: State 1-3D State: Zip:  
 Project Location: State 1-3D Phone #:  
 Sampler Name: Fary Morhezo Fax #:

Lab I.D.	Sample I.D.	(G)GRAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	BTEX	TPH	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
<u>HS00843</u>	<u>6Ae Surface</u>	<u>G</u>	<u>1</u>	<input checked="" type="checkbox"/>							<u>3-23-18</u>	<u>9:05</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>6B e "</u>														
	<u>7A e Surface</u>														
	<u>7B e "</u>														
	<u>8A e Surface</u>														
	<u>8B e "</u>														
	<u>9A e Surface</u>														
	<u>9B e "</u>														
	<u>10A e Surface</u>														
	<u>10B e "</u>														

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Reinquished By: Fary Morhezo Date: 3-28-18 Received By: Jamara White  
 Relinquished By: Fary Morhezo Time: 1:09 PM Received By: Jamara White  
 Date: 3-28-18 Time: 1:09 PM  
 Delivered By: (Circle One) Q.48 Sample Condition:  Cool, Intact  
 Sampler - UPS - Bus - Other: Approved Q.35  Yes  No  Yes  No  
 CHECKED BY: (Initials) AG  
 REMARKS: Greg Gregson - Report  
gregson@markshidlerinc.com  
 Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:

