



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number: pSAD1326258078**

**1RP - 2958**

**JUDAH OIL LLC**

7/20/2016

30-025-32221

September 24, 2013

GARY SMITH  
TNT Backhoe Service  
P.O. Box 133  
Artesia, NM 88211**HOBBS OCD****SEP 26 2013****RECEIVED**

RE: BARR NONE FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 09/18/13 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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).

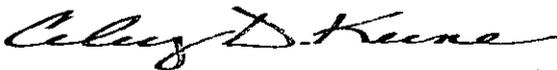
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

 TNT Backhoe Service  
 GARY SMITH  
 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: A-3' DEEP (H302276-01)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

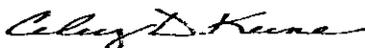
Surrogate: 4-Bromofluorobenzene (PIL) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/19/2013	ND	416	104	400	3.77		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TNT Backhoe Service  
 GARY SMITH  
 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: B-3' DEEP (H302276-02)**

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	09/20/2013	ND	2.11	105	2.00	5.45	
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19	
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79	
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72	
Total BTEX	<0.300	0.300	09/20/2013	ND					

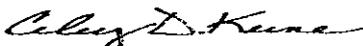
Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/19/2013	ND	416	104	400	3.77	

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 TNT Backhoe Service  
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 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: C-3' DEEP (H302276-03)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

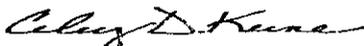
Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/19/2013	ND	416	104	400	3.77		

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 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: D-3' DEEP (H302276-04)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	09/19/2013	ND	416	104	400	3.77		

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 GARY SMITH  
 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: E-3' DEEP (H302276-05)**

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	09/20/2013	ND	2.11	105	2.00	5.45	
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19	
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79	
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72	
Total BTEX	<0.300	0.300	09/20/2013	ND					

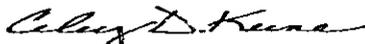
Surrogate: 4-Bromofluorobenzene (PII) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/19/2013	ND	416	104	400	3.77	

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**Analytical Results For:**

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 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: F-3' DEEP (H302276-06)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

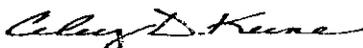
Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/19/2013	ND	416	104	400	3.77		

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 GARY SMITH  
 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: G-3' DEEP (H302276-07)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

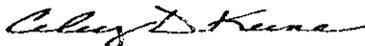
Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/19/2013	ND	416	104	400	3.77		

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 TNT Backhoe Service  
 GARY SMITH  
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 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: H-2' DEEP (H302276-08)**

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	09/20/2013	ND	2.11	105	2.00	5.45	
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19	
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79	
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72	
Total BTEX	<0.300	0.300	09/20/2013	ND					

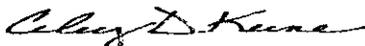
Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/19/2013	ND	416	104	400	3.77	

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Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: NORTH WALL-1 1/2 DEEP (H302276-09)**

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

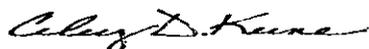
Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/19/2013	ND	416	104	400	3.77		

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Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: SOUTH WALL 1 1/2 DEEP (H302276-10)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/23/2013	ND	432	108	400	0.00		

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TNT Backhoe Service  
 GARY SMITH  
 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: EAST WALL - 1 1/2 DEEP (H302276-11)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>512</b>	16.0	09/23/2013	ND	432	108	400	0.00		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TNT Backhoe Service  
 GARY SMITH  
 P.O. Box 133  
 Artesia NM, 88211  
 Fax To: (505) 746-1885

Received:	09/18/2013	Sampling Date:	09/18/2013
Reported:	09/24/2013	Sampling Type:	Soil
Project Name:	BARR NONE FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: WEST WALL - 1 1/2 DEEP (H302276-12)**

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	09/20/2013	ND	2.11	105	2.00	5.45		
Toluene*	<0.050	0.050	09/20/2013	ND	1.97	98.7	2.00	5.19		
Ethylbenzene*	<0.050	0.050	09/20/2013	ND	1.98	99.2	2.00	4.79		
Total Xylenes*	<0.150	0.150	09/20/2013	ND	6.02	100	6.00	4.72		
Total BTEX	<0.300	0.300	09/20/2013	ND						

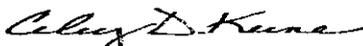
Surrogate: 4-Bromofluorobenzene (PIL) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/23/2013	ND	432	108	400	0.00		

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

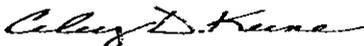
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## 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: <b>TST Backhoe Service</b>		P.O. #:																
Project Manager: <b>Gary Smith</b>		Company: <b>Judek Oil</b>																
Address: <b>1201 South 1st</b>		Attn: <b>Blaise Campbell</b>																
City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b>		Address:																
Phone #: <b>505-244-2442</b> Fax #: <b>1-505-244-0809</b>		City: <b>Artesia</b>																
Project #: <b>525-244-0863</b> Project Owner: <b>Judek Oil</b>		State: <b>NM</b> Zip: <b>88210</b>																
Project Name: <b>Barr Noble Federal #11</b>		Phone #:																
Project Location: <b>Lea County</b>		Fax #:																
Sampler Name: <b>Gary Smith</b>		FOR LAB USE ONLY																
Lab I.D.:	Sample I.D.:	(G)RAB OR (C)OMP:	# CONTAINERS															
<b>H2024716</b>	1 A-3' deep																	
	2 B-9' deep																	
	3 C-3' deep																	
	4 D-3' deep																	
	5 E-3' deep																	
	6 F-3' deep																	
	7 G-3' deep																	
	8 H-2' deep																	
	9 North Well - 1 1/2 deep																	
	10 South Well - 1 1/2 deep																	
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		GROUNDWATER		DATE	TIME													
		WASTEWATER		9-18-13	9:46													
		SOIL		10-15	10:15													
		OIL		11-19	11:42													
		SLUDGE		10-28	10:28													
		OTHER:		9-16	9:16													
		ACID/BASE:		10-12	10:42													
		ICE / COOL		11-14	11:44													
		OTHER:		12-19	12:19													
				12-19	12:48													
				12-31	12:31													
Relinquished By: <b>Gary Smith</b>		Received By: <b>Blaise Campbell</b>		DATE: <b>9/18/13</b>		TIME: <b>3:00</b>		REMARKS: <b>E-mail please TST Backhoe service outputs. Net</b>		PHONE RESULT: <input type="checkbox"/> Yes <input type="checkbox"/> No		ADD'l PHONE #: <b>575-244-0809</b>		ADD'l FAX #: <b>575-244-0809</b>		FAX RESULT: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <b>340c</b>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <b>[Signature]</b>														

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

