

Analytical Results For:

 TRINITY OILFIELD SERVICES & RENTALS, LLC
 TODD ROBERSON
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received:	10/13/2016	Sampling Date:	10/13/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	BTA OGDEN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVING, NM		

Sample ID: SP 5 0' (H602312-09)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 68.6 % 35-147

Surrogate: 1-Chlorooctadecane 73.0 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Received: 10/13/2016
 Reported: 10/14/2016
 Project Name: BTA OGDEN PIPELINE
 Project Number: NONE GIVEN
 Project Location: LOVING, NM

 Sampling Date: 10/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 2' (H602312-10)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 83.4 % 28-171

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Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	BTA OGDEN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVING, NM		

Sample ID: SP 6 0' (H602312-11)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PII) 99.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 94.7 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Received:	10/13/2016	Sampling Date:	10/13/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	BTA OGDEN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVING, NM		

Sample ID: SP 6 4' (H602312-12)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 88.7 % 35-147
Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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 Received: 10/13/2016
 Reported: 10/14/2016
 Project Name: BTA OGDEN PIPELINE
 Project Number: NONE GIVEN
 Project Location: LOVING, NM

 Sampling Date: 10/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BACKGROUND (H602312-13)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 98.5 % 28-171

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Received:	10/13/2016	Sampling Date:	10/13/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	BTA OGDEN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVING, NM		

Sample ID: BACKGROUND S 0' (H602312-14)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 82.2 % 28-171

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Received:	10/13/2016	Sampling Date:	10/13/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	BTA OGDEN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVING, NM		

Sample ID: BACKGROUND S 2' (H602312-15)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 76.7 % 35-147
Surrogate: 1-Chlorooctadecane 80.0 % 28-171

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 Fax To: NONE

 Received: 10/13/2016
 Reported: 10/14/2016
 Project Name: BTA OGDEN PIPELINE
 Project Number: NONE GIVEN
 Project Location: LOVING, NM

 Sampling Date: 10/13/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BACKGROUND W 0' (H602312-16)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

Surrogate: 4-Bromofluorobenzene (PII) 97.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1240	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		


Surrogate: 1-Chlorooctane 78.0 % 35-147

Surrogate: 1-Chlorooctadecane 87.2 % 28-171

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Received:	10/13/2016	Sampling Date:	10/13/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	BTA OGDEN PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVING, NM		

Sample ID: BACKGROUND W 2' (H602312-17)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427		
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401		
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470		
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363		
Total BTEX	<0.300	0.300	10/14/2016	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	10/14/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/14/2016	ND	179	89.3	200	0.820		
DRO >C10-C28	<10.0	10.0	10/14/2016	ND	189	94.3	200	0.995		

Surrogate: 1-Chlorooctane 80.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.8 % 28-171

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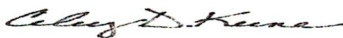
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Todd Roberson</u>		BILL TO		P.O. #:		ANALYSIS REQUEST					
Project Manager: <u>Todd Roberson</u>		Address:		Company: <u>BTA</u>							
City:		State:		Attn: <u>Clay Tipton</u>							
Phone #:		Fax #:		Address:							
Project #:		Project Owner:		City:							
Project Name: <u>BTA Ogden Pipeline</u>		Project Location: <u>LOVING, NM</u>		State:							
Project Location:		Sampler Name: <u>Todd Roberson</u>		Phone #:							
FOR LAB USE ONLY		Lab I.D.: <u>H1602312</u>		Sample I.D.:							
Sample I.D.:		(G)RAB OR (C)OMP.		# CONTAINERS							
MATRIX		GROUNDWATER		WASTEWATER							
SOIL		OIL		SLUDGE							
OTHER :		ACID/BASE:		ICE / COOL							
PRESERV		OTHER :		DATE							
SAMPLING		DATE		TIME							
<u>SP1-0</u>		<u>5</u>		<u>10/13</u>		<u>12:00</u>		<u>BTex</u>			
<u>SP1-1</u>		<u>5</u>		<u>12:10</u>		<u>12:15</u>		<u>Chlorides</u>			
<u>SP2-0</u>		<u>5</u>		<u>12:25</u>		<u>12:30</u>		<u>TPH</u>			
<u>SP2-1</u>		<u>5</u>		<u>12:30</u>		<u>12:40</u>					
<u>SP3-0</u>		<u>5</u>		<u>12:40</u>		<u>12:50</u>					
<u>SP4-0</u>		<u>5</u>		<u>12:50</u>		<u>1:00</u>					
<u>SP4-2</u>		<u>5</u>		<u>1:00</u>		<u>1:10</u>					
<u>SP5-0</u>		<u>5</u>		<u>1:10</u>							
<u>SP5-2</u>		<u>5</u>									

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Relinquished By: [Signature] Date: 10-13-11 Received By: [Signature]
 Relinquished By: [Signature] Date: 4:00 Received By: [Signature]

Delivered By: (Circle One) UPS 0.30
 Sampler - UPS - Bus - Other: 0.30

Sample Condition: Cool Intact
 Yes No

CHECKED BY: [Signature]

REMARKS: Clay Tipton
Todd Roberson

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:

Rush

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: Todd Roberson P.O. #: _____
 Project Manager: Todd Roberson Company: BTA
 Address: _____ Attn: Cley Tipton
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: BTA Ogden Pipeline City: _____ State: _____ Zip: _____
 Project Location: Loviny, NM Phone #: _____
 Sampler Name: Todd Roberson Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
<u>H002312</u>	<u>SP6-D</u>	<u>6</u>	<u>1</u>			<u>10</u>					<u>10-13</u>	<u>1:20</u>	<u>TPH</u>
	<u>SP6-4</u>											<u>1:30</u>	<u>Chlorides</u>
	<u>BG</u>											<u>1:40</u>	<u>BTex</u>
	<u>BG-S-D</u>											<u>1:50</u>	
	<u>BG-S-2</u>											<u>2:00</u>	
	<u>BG-W-D</u>											<u>2:10</u>	
	<u>BG-W-2</u>											<u>2:30</u>	

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Relinquished By: _____ Date: 10-13-16 Received By: Todd Roberson
 Time: 4:05

Delivered By: (Circle One) UPS Sample Condition: Cool Intact Yes No
 Sampler - UPS - Bus - Other: 0:30 CHECKED BY: [Signature]

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: