

2 RP-1424



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
 JEREMY HAASS
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 11/28/2012
 Reported: 11/29/2012
 Project Name: DAYTON WATER LINE
 Project Number: 103-2636
 Project Location: EDDY COUNTY, NM

Sampling Date: 11/28/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BOTTOM 11' (H202868-03)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2012	ND	1.78	89.0	2.00	25.1	
Toluene*	<0.050	0.050	11/29/2012	ND	2.38	119	2.00	2.75	
Ethylbenzene*	<0.050	0.050	11/29/2012	ND	2.57	128	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/29/2012	ND	7.72	129	6.00	5.77	
Total BTEX	<0.300	0.300	11/29/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	12400	16.0	11/29/2012	ND	400	100	400	3.92		

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	11/28/2012	ND	193	96.4	200	1.70	
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	208	104	200	1.70	

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Project Name: DAYTON WATER LINE
Project Number: 103-2636
Project Location: EDDY COUNTY, NM

Sampling Date: 11/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BOTTOM 9' (H202868-02)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.083	0.050	11/28/2012	ND	1.78	89.0	2.00	25.1	
Toluene*	0.099	0.050	11/28/2012	ND	2.38	119	2.00	2.75	
Ethylbenzene*	<0.050	0.050	11/28/2012	ND	2.57	128	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/28/2012	ND	7.72	129	6.00	5.77	
Total BTX	<0.300	0.300	11/28/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	14200	16.0	11/29/2012	ND	400	100	400	3.92	

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	11/28/2012	ND	181	90.5	200	1.11	
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	190	94.9	200	2.41	

Surrogate: 1-Chlorooctane 81.1 % 63.2-140

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154

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Received: 11/28/2012
Reported: 11/29/2012
Project Name: DAYTON WATER LINE
Project Number: 103-2636
Project Location: EDDY COUNTY, NM

Sampling Date: 11/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BOTTOM 7' (H202868-01)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2012	ND	1.78	89.0	2.00	25.1	
Toluene*	<0.050	0.050	11/28/2012	ND	2.38	119	2.00	2.75	
Ethylbenzene*	<0.050	0.050	11/28/2012	ND	2.57	128	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/28/2012	ND	7.72	129	6.00	5.77	
Total BTX	<0.300	0.300	11/28/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 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	20800	16.0	11/29/2012	ND	400	100	400	3.92		

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	11/28/2012	ND	181	90.5	200	1.11	
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	190	94.9	200	2.41	

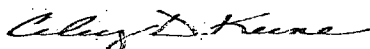
Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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Project Name: DAYTON WATER LINE
Project Number: 103-2636
Project Location: EDDY COUNTY, NM

Sampling Date: 11/28/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH WALL (H202868-05)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2012	ND	1.78	89.0	2.00	25.1	
Toluene*	<0.050	0.050	11/29/2012	ND	2.38	119	2.00	2.75	
Ethylbenzene*	<0.050	0.050	11/29/2012	ND	2.57	128	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/29/2012	ND	7.72	129	6.00	5.77	
Total BTX	<0.300	0.300	11/29/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	5200	16.0	11/29/2012	ND	400	100	400	3.92	

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	11/28/2012	ND	193	96.4	200	1.70	
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	208	104	200	1.70	

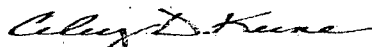
Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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 Project Name: DAYTON WATER LINE
 Project Number: 103-2636
 Project Location: EDDY COUNTY, NM

Sampling Date: 11/28/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH WALL (H202868-04)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2012	ND	1.78	89.0	2.00	25.1	
Toluene*	<0.050	0.050	11/29/2012	ND	2.38	119	2.00	2.75	
Ethylbenzene*	<0.050	0.050	11/29/2012	ND	2.57	128	2.00	7.65	
Total Xylenes*	<0.150	0.150	11/29/2012	ND	7.72	129	6.00	5.77	
Total BTX	<0.300	0.300	11/29/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	5200	16.0	11/29/2012	ND	400	100	400	3.92	

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	11/28/2012	ND	193	96.4	200	1.70	
DRO >C10-C28	<10.0	10.0	11/28/2012	ND	208	104	200	1.70	

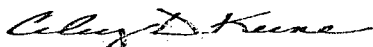
Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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November 29, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/28/12 14:55.

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.

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

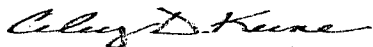
Notes and Definitions

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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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