

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (575) 748-1471

JOHN A. YATES  
CHAIRMAN OF THE BOARD

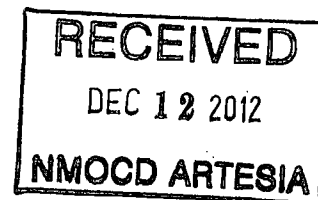
JOHN A. YATES JR.  
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CHIEF FINANCIAL OFFICER

JORGE S. MENDOZA  
CHIEF ADMINISTRATIVE OFFICER

December 12, 2012



Attn: Mike Bratcher

NM Oil Conservation Division  
District II Office  
Artesia, NM 88210

Mr. Bratcher,

Enclosed is a request for closure on the Amole AMM State #4. The source of the release occurred due to a buried flowline, noted on the diagram as *Excavation*. The area surrounding the source was excavated to a depth of approximately 10 feet. Beyond 10 feet a petrocalcic barrier was encountered. A split spoon agar rig was required to further delineate chlorides beyond the depth of 10 feet. The items below are enclosed in this packet.

- a) Final C-141
- b) Site diagram with final analytical data
- c) Graphical representation of chloride delineation in the flowline excavation
- d) Third party laboratory analysis

Thank you,

YATES PETROLEUM CORPORATION

Amanda N. Trujillo  
Environmental Scientist  
Yates Petroleum Corporation  
Office 575-748-4310  
Cell 575-703-6537  
Email atrujillo@yatespetroleum.com

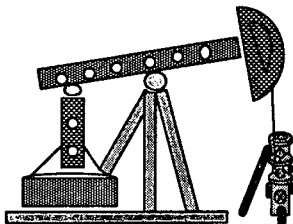
# YATES PETROLEUM CORPORATION

Amole AMM State #4  
30-015-28542

Wednesday, December 12, 2012

NW

NE



Final Sample Analysis	BTEX	GRO	DRO	Chloride	
Bottom Flow Path 4'	ND	ND	ND	464	
Middle Flow Path 2'	0.558	<10.0	30.9	192	
Excavation North 10'	0.228	ND	564	6700 (DISPOSED)	
Excavation North 12'				6160	
Excavation North 14'				3360	
Excavation North 16'				1070	
Excavation North 18'				1070	
Excavation North 20'				112	
Excavation 10' South	ND	ND	ND	14800 (DISPOSED)	
Excavation South 12'				256	
Excavation South 14'				896	
Excavation South 16'				544	

Excavation - North

Middle Flow Path

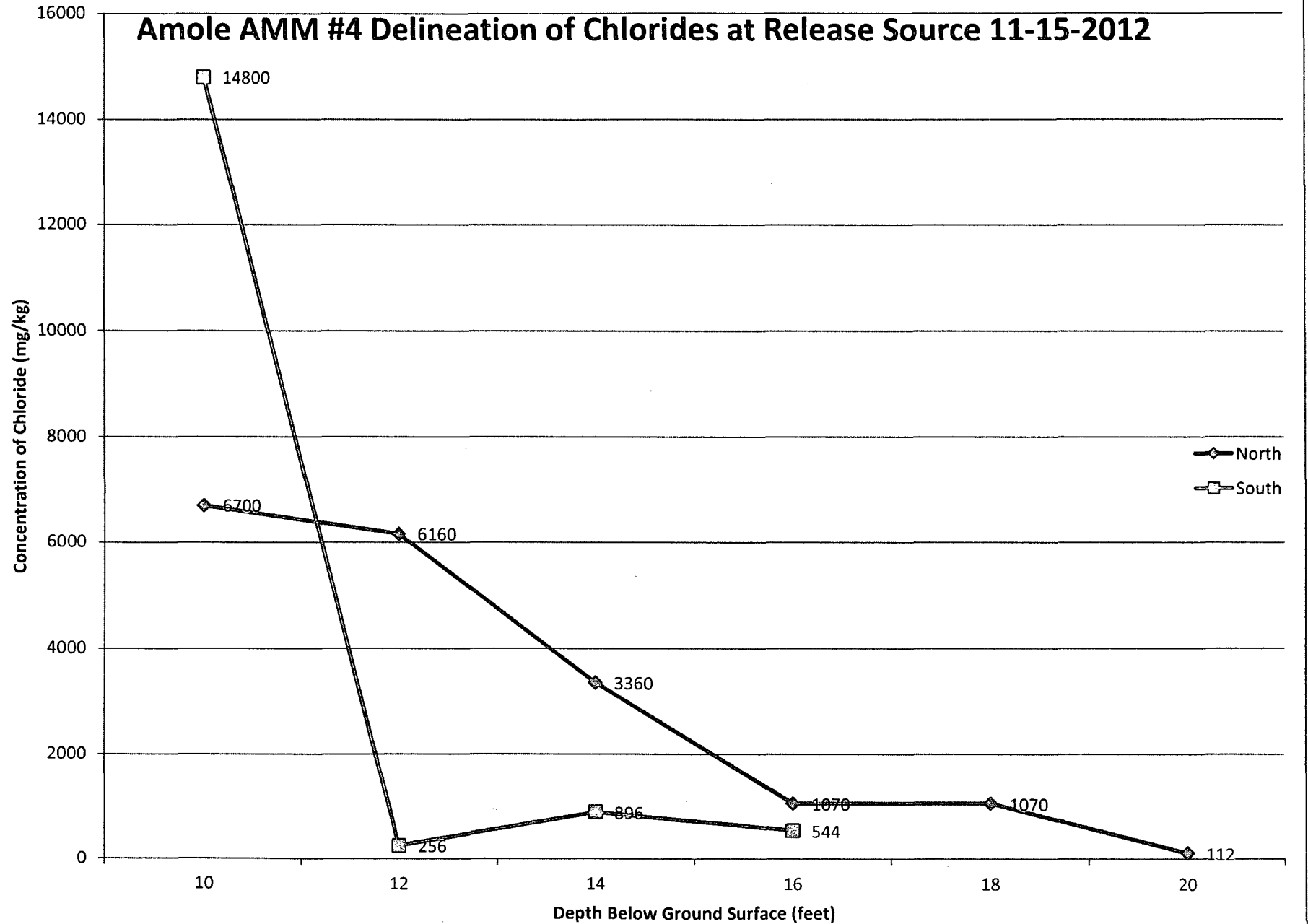
Excavation - South

Bottom Flow Path

SW

SE

# Amole AMM #4 Delineation of Chlorides at Release Source 11-15-2012





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

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November 26, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: AMOLE #4

Enclosed are the results of analyses for samples received by the laboratory on 11/16/12 15:30.

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:**

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

 Received: 11/16/2012  
 Reported: 11/26/2012  
 Project Name: AMOLE #4  
 Project Number: NONE GIVEN  
 Project Location: SECTION 16 T19S R25E

 Sampling Date: 11/15/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH 12' (H202796-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	11/20/2012	ND	400	100	400	0.00	

**Sample ID: NORTH 14' (H202796-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	11/20/2012	ND	400	100	400	0.00		

**Sample ID: NORTH 16' (H202796-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	11/20/2012	ND	400	100	400	0.00	

**Sample ID: NORTH 18' (H202796-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/20/2012	ND	400	100	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 11/16/2012  
Reported: 11/26/2012  
Project Name: AMOLE #4  
Project Number: NONE GIVEN  
Project Location: SECTION 16 T19S R25E

Sampling Date: 11/15/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NORTH 20' (H202796-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/20/2012	ND	400	100	400	0.00	

**Sample ID: SOUTH 10' (H202796-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	11/20/2012	ND	400	100	400	0.00	

**Sample ID: SOUTH 12' (H202796-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/20/2012	ND	400	100	400	0.00	

**Sample ID: SOUTH 14' (H202796-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	11/20/2012	ND	400	100	400	0.00	

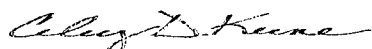
**Sample ID: SOUTH 16' (H202796-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/20/2012	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

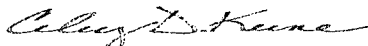
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celest D. Keene, Lab Director/Quality Manager



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

October 09, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: AMOLE #4

Enclosed are the results of analyses for samples received by the laboratory on 10/01/12 16:25.

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).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

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

 Received: 10/01/2012  
 Reported: 10/09/2012  
 Project Name: AMOLE #4  
 Project Number: NONE GIVEN  
 Project Location: SECTION 16 T19S R25E

 Sampling Date: 09/26/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Amanda Ponce

**Sample ID: EXC 10' NORTH (H202392-01)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	<0.050	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	<0.050	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
<b>Total Xylenes*</b>	<b>0.228</b>	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

Surrogate: 4-Bromofluorobenzene (PIE) 134 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/03/2012	ND	205	102	200	3.89	
<b>DRO &gt;C10-C28</b>	<b>564</b>	50.0	10/03/2012	ND	201	101	200	7.92	

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/01/2012	Sampling Date:	09/26/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	AMOLE #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 16 T19S R25E		

**Sample ID: EXC 10' SOUTH (H202392-02)**

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	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	<0.050	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	<0.050	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

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

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	10/03/2012	ND	205	102	200	3.89	
DRO >C10-C28	<10.0	10.0	10/03/2012	ND	201	101	200	7.92	


Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.7 % 63.6-154

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

 Received: 10/01/2012  
 Reported: 10/09/2012  
 Project Name: AMOLE #4  
 Project Number: NONE GIVEN  
 Project Location: SECTION 16 T19S R25E

 Sampling Date: 09/26/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Amanda Ponce

**Sample ID: BOTTOM 4' (H202392-03)**

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	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	<0.050	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	<0.050	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

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

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	10/03/2012	ND	205	102	200	3.89	
DRO >C10-C28	<10.0	10.0	10/03/2012	ND	201	101	200	7.92	

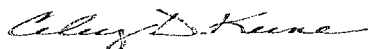
Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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 AMANDA TRUJILLO  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	10/01/2012	Sampling Date:	09/26/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	AMOLE #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 16 T19S R25E		

**Sample ID: BOTTOM 6' (H202392-04)**

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	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	<0.050	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	<0.050	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

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

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	10/03/2012	ND	205	102	200	3.89	
DRO >C10-C28	<10.0	10.0	10/03/2012	ND	201	101	200	7.92	

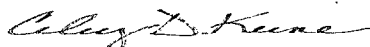
Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 63.6-154

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 Fax To: (505) 748-4635

 Received: 10/01/2012  
 Reported: 10/09/2012  
 Project Name: AMOLE #4  
 Project Number: NONE GIVEN  
 Project Location: SECTION 16 T19S R25E

 Sampling Date: 09/26/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Amanda Ponce

**Sample ID: BOTTOM 8' (H202392-05)**

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	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	<0.050	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	<0.050	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

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

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	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	<10.0	10.0	10/04/2012	ND	201	101	200	7.92	

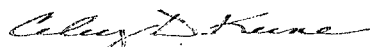
Surrogate: 1-Chlorooctane 86.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/01/2012	Sampling Date:	09/26/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	AMOLE #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 16 T19S R25E		

**Sample ID: BOTTOM 10' (H202392-06)**

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	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	<0.050	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	<0.050	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

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	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	<10.0	10.0	10/04/2012	ND	201	101	200	7.92	

Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

S-01            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

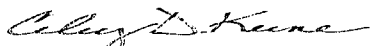
                 Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amanda Trujillo

Project Name: Amole #4

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #:

Company Address: 105 South 4th Street

Project Loc: Section 16 T19S R25E

City/State/Zip: Artesia, NM 88210

PO #:

Telephone No: 575-748-4310

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: [atrujillo@yatespetroleum.com](mailto:atrujillo@yatespetroleum.com)

[illegible]





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

---

October 09, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: AMOLE #4

Enclosed are the results of analyses for samples received by the laboratory on 10/01/12 16:25.

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:**

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

Received:	10/01/2012	Sampling Date:	09/26/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	AMOLE #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 16 T19S R25E		

**Sample ID: EXC 10' NORTH (H202392-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6700	16.0	10/05/2012	ND	400	100	400	3.92	

**Sample ID: EXC 10' SOUTH (H202392-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	10/05/2012	ND	400	100	400	3.92	

**Sample ID: BOTTOM 4' (H202392-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/05/2012	ND	400	100	400	3.92	

**Sample ID: BOTTOM 6' (H202392-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/05/2012	ND	400	100	400	3.92	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 10/01/2012  
Reported: 10/09/2012  
Project Name: AMOLE #4  
Project Number: NONE GIVEN  
Project Location: SECTION 16 T19S R25E

Sampling Date: 09/26/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Amanda Ponce

**Sample ID: BOTTOM 8' (H202392-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/05/2012	ND	400	100	400	0.00	


**Sample ID: BOTTOM 10' (H202392-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/05/2012	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

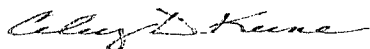
**Notes and Definitions**

- 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

(505) 393-2326 FAX (505) 393-2476

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amanda Trujillo

Project Name: Amole #4

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #:

Company Address: 105 South 4th Street

Project Loc: Section 16 T19S R25E

City/State/Zip: Artesia, NM 88210

PO #:

Telephone No: 575-748-4310

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

· Sampler Signature:

e-mail: [atrujillo@yatespetroleum.com](mailto:atrujillo@yatespetroleum.com)

LAB # (lab use only)		Beginning Depth		Ending Depth		Date Sampled		Time Sampled		Field Filtered		Total # of Containers		Preservation & # of Containers		Matrix		8015B		8015M		TX 1005		TX 1006		Cations (Ca, Mg, Na, K)		Anions (Cl, SO4, Alkalinity)		SAR / ESP / CEC		Metals: As Ag Ba Cd Cr Pb Hg Se		Volatiles		Semi-volatiles		BTX 8021B/5030 or BTX 8260		RCI		N.O.R.M.		Chlorides		SAR		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs		Standard TAT	
ORDER #:																																																			
4202392 FIELD CODE																																																			
1 Excavation 10' North		7'		7'		9/26/2012		9:00 AM		1		x						S		X																															
2 Excavation 10' South		8'		8'		9/26/2012		9:00 AM		1		x						S		X																															
3 Bottom 4'		4'		4'		9/26/2012		9:00 AM		1		x						S		X																															
4 Bottom 6'		6'		6'		9/26/2012		9:00 AM		1		x						S		X																															
5 Bottom 8'		8'		8'		9/26/2012		9:00 AM		1		x						S		X																															
6 Bottom 10'		10'		10'		9/26/2012		9:00 AM		1		x						S		X																															



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

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September 04, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: AMOLE AMM #4

Enclosed are the results of analyses for samples received by the laboratory on 08/29/12 11:15.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/29/2012	Sampling Date:	08/27/2012
Reported:	09/04/2012	Sampling Type:	Soil
Project Name:	AMOLE AMM #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	S16 T19S R25E		

**Sample ID: BOTTOM OF FLOW PATH (H202077-01)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.96</b>	1.00	08/31/2012	ND	1.74	87.2	2.00	3.77	
<b>Toluene*</b>	<b>125</b>	1.00	08/31/2012	ND	1.79	89.7	2.00	4.44	
<b>Ethylbenzene*</b>	<b>179</b>	1.00	08/31/2012	ND	1.80	90.2	2.00	4.34	
<b>Total Xylenes*</b>	<b>249</b>	3.00	08/31/2012	ND	5.84	97.4	6.00	4.48	

Surrogate: 4-Bromofluorobenzene (PIE) 144 % 89.4-126

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>4900</b>	50.0	08/30/2012	ND	199	99.6	200	2.83	
<b>DRO &gt;C10-C28</b>	<b>15000</b>	50.0	08/30/2012	ND	198	98.9	200	3.32	

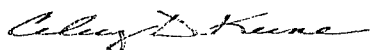
Surrogate: 1-Chlorooctane 249 % 65.2-140

Surrogate: 1-Chlorooctadecane 215 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/29/2012	Sampling Date:	08/27/2012
Reported:	09/04/2012	Sampling Type:	Soil
Project Name:	AMOLE AMM #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	S16 T19S R25E		

**Sample ID: MIDDLE FLOW PATH (H202077-02)**

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	08/31/2012	ND	1.74	87.2	2.00	3.77	
Toluene*	<b>0.071</b>	0.050	08/31/2012	ND	1.79	89.7	2.00	4.44	
Ethylbenzene*	<b>0.201</b>	0.050	08/31/2012	ND	1.80	90.2	2.00	4.34	
Total Xylenes*	<b>0.286</b>	0.150	08/31/2012	ND	5.84	97.4	6.00	4.48	

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

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	08/30/2012	ND	199	99.6	200	2.83	
DRO >C10-C28	<b>30.9</b>	10.0	08/30/2012	ND	198	98.9	200	3.32	

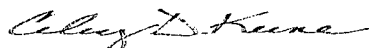
Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.2 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	08/29/2012	Sampling Date:	08/27/2012
Reported:	09/04/2012	Sampling Type:	Soil
Project Name:	AMOLE AMM #4	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	S16 T19S R25E		

**Sample ID: EXCAVATION (H202077-03)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>59.1</b>	1.00	08/31/2012	ND	1.74	87.2	2.00	3.77	
<b>Toluene*</b>	<b>224</b>	1.00	08/31/2012	ND	1.79	89.7	2.00	4.44	
<b>Ethylbenzene*</b>	<b>141</b>	1.00	08/31/2012	ND	1.80	90.2	2.00	4.34	
<b>Total Xylenes*</b>	<b>173</b>	3.00	08/31/2012	ND	5.84	97.4	6.00	4.48	

Surrogate: 4-Bromofluorobenzene (PIE) 130 % 89.4-126

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>3640</b>	50.0	08/30/2012	ND	199	99.6	200	2.83	
<b>DRO &gt;C10-C28</b>	<b>5430</b>	50.0	08/30/2012	ND	198	98.9	200	3.32	

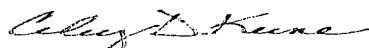
Surrogate: 1-Chlorooctane 225 % 65.2-140

Surrogate: 1-Chlorooctadecane 181 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

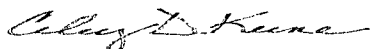
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED 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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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amanda Trujillo

Project Name: Amole AMM #4

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #: \_\_\_\_\_

Company Address: 105 South 4th Street

Project Loc: S16 T19S R25E

City/State/Zip: Artesia, NM 88210

PO #: \_\_\_\_\_

Telephone No: 575-748-4310

Fax No: \_\_\_\_\_

Report Format: Standard TRRP NPDES

Sampler Signature: \_\_\_\_\_

e-mail: atrujillo@yatespetroleum.com

(lab use only)  
ORDER #: H1202077

ORDER #:		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Preservation & # of Containers										Matrix										Analyze For:										RUSH TAT (Pre-Scheduling) 24, 48, 72 hrs		Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
LAB # (lab use only)									Total # of Containers	Is#	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> O <sub>2</sub>	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	Drinking Water	SLUDGE	ENVIRONMENTAL	TX 1005	TX 1006	TX 1007	TX 1008	TX 1009	TX 1010	TX 1011	TX 1012	TX 1013	TX 1014	TX 1015	TX 1016	TX 1017	TX 1018	TX 1019	TX 1020	TX 1021	TX 1022	TX 1023	TX 1024	TX 1025	TX 1026	TX 1027	TX 1028	TX 1029	TX 1030	TX 1031	TX 1032	TX 1033	TX 1034	TX 1035	TX 1036	TX 1037	TX 1038	TX 1039	TX 1040	TX 1041	TX 1042	TX 1043	TX 1044	TX 1045	TX 1046	TX 1047	TX 1048	TX 1049	TX 1050	TX 1051	TX 1052	TX 1053	TX 1054	TX 1055	TX 1056	TX 1057	TX 1058	TX 1059	TX 1060	TX 1061	TX 1062	TX 1063	TX 1064	TX 1065	TX 1066	TX 1067	TX 1068	TX 1069	TX 1070	TX 1071	TX 1072	TX 1073	TX 1074	TX 1075	TX 1076	TX 1077	TX 1078	TX 1079	TX 1080	TX 1081	TX 1082	TX 1083	TX 1084	TX 1085	TX 1086	TX 1087	TX 1088	TX 1089	TX 1090	TX 1091	TX 1092	TX 1093	TX 1094	TX 1095	TX 1096	TX 1097	TX 1098	TX 1099	TX 1100	TX 1101	TX 1102	TX 1103	TX 1104	TX 1105	TX 1106	TX 1107	TX 1108	TX 1109	TX 1110	TX 1111	TX 1112	TX 1113	TX 1114	TX 1115	TX 1116	TX 1117	TX 1118	TX 1119	TX 1120	TX 1121	TX 1122	TX 1123	TX 1124	TX 1125	TX 1126	TX 1127	TX 1128	TX 1129	TX 1130	TX 1131	TX 1132	TX 1133	TX 1134	TX 1135	TX 1136	TX 1137	TX 1138	TX 1139	TX 1140	TX 1141	TX 1142	TX 1143	TX 1144	TX 1145	TX 1146	TX 1147	TX 1148	TX 1149	TX 1150	TX 1151	TX 1152	TX 1153	TX 1154	TX 1155	TX 1156	TX 1157	TX 1158	TX 1159	TX 1160	TX 1161	TX 1162	TX 1163	TX 1164	TX 1165	TX 1166	TX 1167	TX 1168	TX 1169	TX 1170	TX 1171	TX 1172	TX 1173	TX 1174	TX 1175	TX 1176	TX 1177	TX 1178	TX 1179	TX 1180	TX 1181	TX 1182	TX 1183	TX 1184	TX 1185	TX 1186	TX 1187	TX 1188	TX 1189	TX 1190	TX 1191	TX 1192	TX 1193	TX 1194	TX 1195	TX 1196	TX 1197	TX 1198	TX 1199	TX 1200	TX 1201	TX 1202	TX 1203	TX 1204	TX 1205	TX 1206	TX 1207	TX 1208	TX 1209	TX 1210	TX 1211	TX 1212	TX 1213	TX 1214	TX 1215	TX 1216	TX 1217	TX 1218	TX 1219	TX 1220	TX 1221	TX 1222	TX 1223	TX 1224	TX 1225	TX 1226	TX 1227	TX 1228	TX 1229	TX 1230	TX 1231	TX 1232	TX 1233	TX 1234	TX 1235	TX 1236	TX 1237	TX 1238	TX 1239	TX 1240	TX 1241	TX 1242	TX 1243	TX 1244	TX 1245	TX 1246	TX 1247	TX 1248	TX 1249	TX 1250	TX 1251	TX 1252	TX 1253	TX 1254	TX 1255	TX 1256	TX 1257	TX 1258	TX 1259	TX 1260	TX 1261	TX 1262	TX 1263	TX 1264	TX 1265	TX 1266	TX 1267	TX 1268	TX 1269	TX 1270	TX 1271	TX 1272	TX 1273	TX 1274	TX 1275	TX 1276	TX 1277	TX 1278	TX 1279	TX 1280	TX 1281	TX 1282	TX 1283	TX 1284	TX 1285	TX 1286	TX 1287	TX 1288	TX 1289	TX 1290	TX 1291	TX 1292	TX 1293	TX 1294	TX 1295	TX 1296	TX 1297	TX 1298	TX 1299	TX 1300	TX 1301	TX 1302	TX 1303	TX 1304	TX 1305	TX 1306	TX 1307	TX 1308	TX 1309	TX 1310	TX 1311	TX 1312	TX 1313	TX 1314	TX 1315	TX 1316	TX 1317	TX 1318	TX 1319	TX 1320	TX 1321	TX 1322	TX 1323	TX 1324	TX 1325	TX 1326	TX 1327	TX 1328	TX 1329	TX 1330	TX 1331	TX 1332	TX 1333	TX 1334	TX 1335	TX 1336	TX 1337	TX 1338	TX 1339	TX 1340	TX 1341	TX 1342	TX 1343	TX 1344	TX 1345	TX 1346	TX 1347	TX 1348	TX 1349	TX 1350	TX 1351	TX 1352	TX 1353	TX 1354	TX 1355	TX 1356	TX 1357	TX 1358	TX 1359	TX 1360	TX 1361	TX 1362	TX 1363	TX 1364	TX 1365	TX 1366	TX 1367	TX 1368	TX 1369	TX 1370	TX 1371	TX 1372	TX 1373	TX 1374	TX 1375	TX 1376	TX 1377	TX 1378	TX 1379	TX 1380	TX 1381	TX 1382	TX 1383	TX 1384	TX 1385	TX 1386	TX 1387	TX 1388	TX 1389	TX 1390	TX 1391	TX 1392	TX 1393	TX 1394	TX 1395	TX 1396	TX 1397	TX 1398	TX 1399	TX 1400	TX 1401	TX 1402	TX 1403	TX 1404	TX 1405	TX 1406	TX 1407	TX 1408	TX 1409	TX 1410	TX 1411	TX 1412	TX 1413	TX 1414	TX 1415	TX 1416	TX 1417	TX 1418	TX 1419	TX 1420	TX 1421	TX 1422	TX 1423	TX 1424	TX 1425	TX 1426	TX 1427	TX 1428	TX 1429	TX 1430	TX 1431	TX 1432	TX 1433	TX 1434	TX 1435	TX 1436	TX 1437	TX 1438	TX 1439	TX 1440	TX 1441	TX 1442	TX 1443	TX 1444	TX 1445	TX 1446	TX 1447	TX 1448	TX 1449	TX 1450	TX 1451	TX 1452	TX 1453	TX 1454	TX 1455	TX 1456	TX 1457	TX 1458	TX 1459	TX 1460	TX 1461	TX 1462	TX 1463	TX 1464	TX 1465	TX 1466	TX 1467	TX 1468	TX 1469	TX 1470	TX 1471	TX 1472	TX 1473	TX 1474	TX 1475	TX 1476	TX 1477	TX 1478	TX 1479	TX 1480	TX 1481	TX 1482	TX 1483	TX 1484	TX 1485	TX 1486	TX 1487	TX 1488	TX 1489	TX 1490	TX 1491	TX 1492	TX 1493	TX 1494	TX 1495	TX 1496	TX 1497	TX 1498	TX 1499	TX 1500	TX 1501	TX 1502	TX 1503	TX 1504	TX 1505	TX 1506	TX 1507	TX 1508	TX 1509	TX 1510	TX 1511	TX 1512	TX 1513	TX 1514	TX 1515	TX 1516	TX 1517	TX 1518	TX 1519	TX 1520	TX 1521	TX 1522	TX 1523	TX 1524	TX 1525	TX 1526	TX 1527	TX 1528	TX 1529	TX 1530	TX 1531	TX 1532	TX 1533	TX 1534	TX 1535	TX 1536	TX 1537	TX 1538	TX 1539	TX 1540	TX 1541	TX 1542	TX 1543	TX 1544	TX 1545	TX 1546	TX 1547	TX 1548	TX 1549	TX 1550	TX 1551	TX 1552	TX 1553	TX 1554	TX 1555	TX 1556	TX 1557	TX 1558	TX 1559	TX 1560	TX 1561	TX 1562	TX 1563	TX 1564	TX 1565	TX 1566	TX 1567	TX 1568	TX 1569	TX 1570	TX 1571	TX 1572	TX 1573	TX 1574	TX 1575	TX 1576	TX 1577	TX 1578	TX 1579	TX 1580	TX 1581	TX 1582	TX 1583	TX 1584	TX 1585	TX 1586	TX 1587	TX 1588	TX 1589	TX 1590	TX 1591	TX 1592	TX 1593	TX 1594	TX 1595	TX 1596	TX 1597	TX 1598	TX 1599	TX 1600	TX 1601	TX 1602	TX 1603	TX 1604	TX 1605	TX 1606	TX 1607	TX 1608	TX 1609	TX 1610	TX 1611	TX 1612	TX 1613	TX 1614	TX 1615	TX 1616	TX 1617	TX 1618	TX 1619	TX 1620	TX 1621	TX 1622	TX 1623	TX 1624	TX 1625	TX 1626	TX 1627	TX 1628	TX 1629	TX 1630	TX 1631	TX 1632	TX 1633	TX 1634	TX 1635	TX 1636	TX 1637	TX 1638	TX 1639	TX 1640	TX 1641	TX 1642	TX 1643	TX 1644	TX 1645	TX 1646	TX 1647	TX 1648	TX 1649	TX 1650	TX 1651	TX 1652	TX 1653	TX 1654	TX 1655	TX 1656	TX 1657	TX 1658	TX 1659	TX 1660	TX 1661	TX 1662	TX 1663	TX 1664	TX 1665	TX 1666	TX 1667	TX 1668	TX 1669	TX 1670	TX 1671	TX 1672	TX 1673	TX 1674	TX 1675	TX 1676	TX 1677	TX 1678	TX 1679	TX 1680	TX 1681	TX 1682	TX 1683	TX 1684	TX 1685	TX 1686	TX 1687	TX 1688	TX 1689	TX 1690	TX 1691	TX 1692	TX 1693	TX 1694	TX 1695	TX 1696	TX 1697	TX 1698	TX 1699	TX 1700	TX 1701	TX 1702	TX 1703	TX 1704	TX 1705	TX 1706	TX 1707	TX 1708	TX 1709	TX 1710	TX 1711	TX 1712	TX 1713	TX 1714	TX 1715	TX 1716	TX 1717	TX 1718	TX 1719	TX 1720	TX 1721	TX 1722	TX 1723	TX 1724	TX 1725	TX 1726	TX 1727	TX 1728	TX 1729	TX 1730	TX 1731	TX 1732	TX 1733	TX 1734	TX 1735	TX 1736	TX 1737	TX 1738	TX 1739	TX 1740	TX 1741	TX 1742	TX 1743	TX 1744	TX 1745	TX 1746	TX 1747	TX 1748	TX 1749	TX 1750	TX 1751	TX 1752	TX 1753	TX 1754	TX 1755	TX 1756	TX 1757	TX 1758	TX 1759	TX 1760	TX 1761	TX 1762	TX 1763	TX 1764	TX 1765	TX 1766	TX 1767	TX 1768	TX 1769	TX 1770	TX 1771	TX 1772	TX 1773	TX 1774	TX 1775	TX 1776	TX 1777	TX 1778	TX 1779	TX 1780	TX 1781	TX 1782	TX 1783	TX 1784	TX 1785	TX 1786	TX 1787	TX 1788	TX 1789	TX 1790	TX 1791	TX 1792	TX 1793	TX 1794	TX 1795	TX 1796	TX 1797	TX 1798	TX 1799	TX 1800	TX 1801	TX 1802	TX 1803	TX 1804	TX 1805	TX 1806	TX 1807	TX 1808	TX 1809	TX 1810	TX 1811	TX 1812	TX 1813	TX 1814	TX 1815	TX 1816	TX 1817	TX 1818	TX 1819	TX 1820	TX 1821	TX 1822	TX 1823	TX 1824	TX 1825	TX 1826	TX 1827	TX 1828	TX 1829	TX 1830	TX 1831	TX 1832	TX 1833	TX 1834	TX 1835	TX 1836	TX 1837	TX 1838	TX 1839	TX 1840	TX 1841	TX 1842	TX 1843	TX 1844	TX 1845	TX 1846	TX 1847	TX 1848	TX 1849	TX 1850	TX 1851	TX 1852	TX 1853	TX 1854	TX 1855	TX 1856	TX 1857	TX 1858	TX 1859	TX 1860	TX 1861	TX 1862	TX 1863	TX 1864	TX 1865	TX 1866	TX 1867	TX 1868	TX 1869	TX 1870	TX 1871	TX 1872	TX 1873	TX 1874	TX 1875	TX 1876	TX 1877	TX 1878	TX 1879	TX 1880	TX 1881	TX 1882	TX 1883	TX 1884	TX 1885	TX 1886	TX 1887	TX 1888	TX 1889	TX 1890	TX 1891	TX 1892	TX 1893	TX 1894	TX 1895	TX 1896	TX 1897	TX 1898	TX 1899	TX 1900	TX 1901	TX 1902	TX 1903	TX 1904	TX 1905	TX 1906	TX 1907	TX 1908	TX 1909	TX 1910	TX 1911	TX 1912	TX 1913	TX 1914	TX 1915	TX 1916	TX 1917	TX 1918	TX 1919	TX 1920	TX 1921	TX 1922	TX 1923	TX 1924	TX 1925	TX 1926	TX 1927	TX 1928	TX 1929	TX 1930	TX 1931	TX 1932	TX 1933	TX 1934	TX 1935	TX 1936	TX 1937	TX 1938	TX 1939	TX 1940	TX 1941	TX 1942	TX 1943	TX 1944	TX 1945	TX 1946	TX 1947	TX 1948	TX 1949	TX 1950	TX 1951	TX 1952	TX 1953	TX 1954	TX 1955	TX 1956	TX 1957	TX 1958	TX 1959	TX 1960	TX 1961	TX 1962	TX 1963	TX 1964	TX 1965	TX 1966	TX 1967	TX 1968	TX 1969	TX 1970	TX 1971	TX 1972	TX 1973	TX 1974	TX 1975	TX 1976	TX 1977	TX 1978	TX 1979	TX 1980	TX 1981	TX 1982	TX 1983	TX 1984	TX 1985	TX 1986	TX 1987	TX 1988	TX 1989	TX 1990	TX 1991	TX 1992	TX 1993	TX 1994	TX 1995	TX 1996	TX 1997	TX 1998	TX 1999	TX 2000	TX 2001	TX 2002	TX 2003	TX 2004	TX 2005	TX 2006	TX 2007	TX 2008	TX 2009	TX 2010	TX 2011	TX 2012	TX 2013	TX 2014	TX 2015	TX 2016	TX 2017	TX 2018	TX 2019	TX 2020	TX 2021	TX 2022	TX 2023	TX 2024	TX 2025	TX 2026	TX 2027	TX 2028	TX 2029	TX 2030	TX 2031	TX 2032	TX 2033	TX 2034	TX 2035	TX 2036	TX 2037	TX 2038	TX 2039	TX 2040	TX 2041	TX 2042	TX 2043	TX 2044	TX 2045	TX 2046	TX 2047	TX 2048	TX 2049	TX 2050	TX 2051	TX 2052	TX 2053	TX 2054	TX 2055	TX 2056	TX 2057	TX 2058	TX 2059	TX 2060	TX 2061	TX 2062	TX 2063	TX 2064	TX 2065	TX 2066	TX 2067	TX 2068	TX 2069	TX 2070	TX 2071	TX 2072	TX 2073	TX 2074	TX 2075	TX 2076	TX 2077	TX 2078	TX 2079	TX 2080	TX 2081	TX 2082	TX 2083	TX 2084	TX 2085	TX 2086	TX 2087	TX 2088	TX 2089	TX 2090	TX 2091	TX 2092	TX 2093	TX 2094	TX 2095	TX 2096	TX 2097	TX 2098	TX 2099	TX 2100	TX 2101

Special Instructions: Please place chloride results on separate report. Thank you.

Laboratory Comments:  
Sample Containers Intact? Y N  
VOCs Free of Headspace? Y N  
Labels on container(s) Y N  
Custody seals on container(s) Y N  
Custody seals on cooler(s) Y N  
Sample Hand Delivered by Sampler/Client Rep. ? Y N  
by Courier? Y N  
UPS DHL Y N  
FedEx Y N  
Temperature Upon Receipt: 130 °C

Relinquished by: <u>[Signature]</u>	Date: <u>08/23/12</u>	Time: <u>3:31 PM</u>	Received by: <u>[Signature]</u>	Date: <u>8/29/12</u>	Time: <u>11:15</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: ELOI:	Date:	Time:

#26



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

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September 04, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: AMOLE AMM #4

Enclosed are the results of analyses for samples received by the laboratory on 08/29/12 11:15.

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:**

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

Received: 08/29/2012  
 Reported: 09/04/2012  
 Project Name: AMOLE AMM #4  
 Project Number: NONE GIVEN  
 Project Location: S16 T19S R25E

Sampling Date: 08/27/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: BOTTOM OF FLOW PATH (H202077-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9700	16.0	08/31/2012	ND	400	100	400	3.92		

**Sample ID: MIDDLE FLOW PATH (H202077-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/31/2012	ND	400	100	400	3.92		

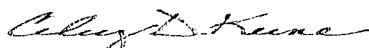
**Sample ID: EXCAVATION (H202077-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	08/31/2012	ND	400	100	400	3.92		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

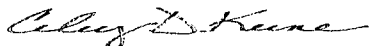
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amanda Trujillo

Project Name: Amole AMM #4

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #: \_\_\_\_\_

Company Address: 105 South 4th Street

Project Loc: S16 T19S R25E

City/State/Zip: Artesia, NM 88210

PO #: \_\_\_\_\_

Telephone No: 575-748-4310

Fax No: \_\_\_\_\_

Report Format: Standard TRRP NPDES

Sampler Signature: \_\_\_\_\_

e-mail: atrujillo@yatespetroleum.com

(lab use only)

ORDER #: H1202077

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers										Matrix										RUSH TAT (pre-Schedule) 24, 48, 72 hrs	Standard TAT									
								10.1	8015M	8015B	TPH: 410.1	8015M	8015B	TPH: TX 1005	TX 1005	Calcions (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	STEX 8021B/5030 or BTEX 6260	RCI	NORM	Chlorides													
1	Bottom of Flow Path	2.5'	2.5'	8/27/2012	9:00 AM		1	1										X																				
2	Middle Flow Path	2.0'	2.0'	8/27/2012	9:00 AM		1	1										X																				
3	Excavation	5'	5'	8/27/2012	9:00 AM		1	1										X																				

Special Instructions:

Please place chloride results on separate report. Thank you.

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELOF:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier? UPS DHL

Temperature Upon Receipt:

Y

Y

Y

Y

Y

Y

Y

Y

Y

N

N

N

N

N

N

N

N

N

136 °C

#26