



October 09, 2012

AMANDA TRUJILLO Yates Energy Petroleum Corp 105 S 4th Street Artesia, NM 88210

**RE: ANENOME BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 10/01/12 16:30.

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 <a href="http://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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. Keine

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:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

### Sample ID: WEST SAMPLE (H202394-01)

BTEX 8021B	mg/	kg	Analyze	d 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*	0.062	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	
Sui rogate 4-Biomofluorobenzene (PIL	103 9	% 89 4-12	6						
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	14.8	10.0	10/04/2012	ND	201	101	200	7.92	
Suirogate 1-Chlorooctane	88 7 5	65 2-14	0						· · · ·
Surrogate I-Chlorooctadecane	8649	63 6-15	4						

#### **Cardinal Laboratories**

### \*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and clenck's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be limited to the performance of the services hereunder by client, its subsidianes, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims advice upon any of the aborationes.

Celey & Kune

Celey D. Keene, Lab Director/Quality Manager



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Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

### Sample ID: MIDDLE SAMPLE (H202394-02)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.95	1.00	10/04/2012	ND	1.99	99.4	2.00	6,80	
Toluene*	82.8	1.00	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	21.6	1.00	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	153	3.00	10/04/2012	ND	6.79	113	6.00	6.48	
Surrogate 4-Bromofluorobenzene (PIL	127	% 89 4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2570	50.0	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	3250	50.0	10/04/2012	ND	201	101	200	7.92	
Surrogate 1-Chlorooctane	198	% 65 2-14	0					· · · · · · · · · · · · · · · · · · ·	
Surrogate 1-Chlorooctadecane	123	% 63 6-15	4						

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Celez Di Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

#### Sample ID: EAST SAMPLE (H202394-03)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					<u>, _</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2012	ND	2.17	109	2.00	1.56	
Toluene*	<0.050	0.050	10/06/2012	ND	1.97	98,3	2.00	1.36	
Ethylbenzene*	<0.050	0.050	10/06/2012	ND	1.95	97.7	2.00	0.863	
Total Xylenes*	<0.150	0.150	10/06/2012	ND	5.75	95.8	6.00	0.915	
Sui logate 4-Bromofluorobenzene (PIL	105 9	% 89 4-120	5			·			
TPH 8015M	mg/	'kg	Analyze	d 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	933	% 65 2-140	)				· · <b>-</b> · <b>-</b> · · · · · · · · · · · · · · · · · · ·		
Surrogate 1-Chlorooctadecane	878	% 63 6-154	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinals liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitspeever shall be deemed waved unless made in writing and received by clerit, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal kerities of whether based in writing and received by clerit, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based unover statier desons or otherwave. Results relate only to the sample is clarification to any soft the barrows tatier desons or otherwave.

Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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

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# **Notes and Definitions**

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Celey D. Keene, Lab Director/Quality Manager

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LAB # (lab use only)	02374 FIELD	СОБЕ		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fillered	Total # of Containers	lae Hano.	HICI	H <sub>2</sub> SO4	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other ( Specify)	DV/=Drnking Water SL≖Sludge	uwe uronnovarer s≡sonscrid tiP=Non-Potable Specify Oner	TP11: 418 1 8015M 8015	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Volatiles	Semivolatiles	RTEX 8021B/5030 or BTEX 8260	RCI NORLI	Chiorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
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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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited in the transformation 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes are denoted analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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### 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:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

### Sample ID: WEST SAMPLE (H202394-01)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/05/2012	ND	400	100	400	0.00	

## Sample ID: MIDDLE SAMPLE (H202394-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/05/2012	ND	400	100	400	0.00	

## Sample ID: EAST SAMPLE (H202394-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM			·····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/05/2012	ND	400	100	400	0.00	

#### Cardinal Laboratories

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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# **Notes and Definitions**

-	Chloride by SM4500CI-B does not require samples be received at or below $6^{\circ}C$
***	Insufficient time to reach temperature.
**	Samples not received at proper temperature of 6°C or below.
RPD	Relative Percent Difference
ND	Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Project Name: Anenome Battery Project Manager: Amanda Trujilo Project #: Comp: (505) 393-2326 Yates Petroleum Corporation Project Loc: Section 9 T22S R24E Company Address: 105 South 4th Street City/State/Zip Artesia, NM 88210 PO #: Report Format: X Standard TRRP | NPDES Telephone No: Fax No. 575-748-4310 atruiillo@yatespetroleum.com e-mail. Sampler Signature: Analyze For, (lab use only) TCLP TOTAL RUSH TAT (Pre-Schedule) 24, 48, 72 hrs ORDER #: Preservation & # of Containers Matrix Sc BTEX 8021B/5030 or BTEX 8260 80 1006 Vietals: As Ag'Ba Cd Cr Pb Hg S=Scil/Sclid SL=Sludge Anions (CI, SO4. Alkalinity) Х AB # (lab use only) 8015M Ŷ Beginning Depth Na. Sampled Sampled Ending Dèpth Contain SAR / ESP / CEC 0W=Drinking Water Mg, Other ( Specify) TX 1005 Standard TAT Petable 418.1 Semvolatics ield Filtered Cations (Ca. GW = Grount Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Chiondes ď N O.R M Volatiles Time : H<sub>2</sub>SO4 NaOH Date ( otal # HNO<sub>3</sub> None ÷. SAR Ha Ö 5 RC D 4202341 FIELD CODE 6" 8" 9 00 AM west sample 9/28/2012 х Х х s х 2 6" 8" middle sample 9/28/2012 9.00 AM 1 х s Х Х Y 12 east sample 6" 8" 9/28/2012 9:00 AM Х Х 1 s Х Y Special Instructions: Please Place Chlorides in separate report. Laboratory Comments: Sample Containers Intact? N VOCs Free of Headspace? N Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Date N. Relinguished by Time Date Received by ? Time B 4.30 10/01/12 11:28 AM 10/1/12 Date 8 Time Time Sample Hand Delivered Received by Date: Relinquished by Ň by Sampler/Client Rep ? Ν 4. Sugar 10/111 ブッヘ by Couner? UPS DHL FedEx Lone Star Relinguished by Time Time Date Received by ELOT: .Date . . Temperature Upon Receipt. Page 4 of 4 Ling the first in the second n daga tang 🖓 Anna Sec. 

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October 31, 2012

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RE: ANENOME BATTERY

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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. Keine

Celey D. Keene Lab Director/Quality Manager



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## Analytical Results For:

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

Received:	10/25/2012	Sampling Date:	10/17/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SECTION 9 T22S R24E		

### Sample ID: MIDDLE 2' (H202600-01)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2012	ND	2,25	113	2.00	16.1	
Toluene*	<0.050	0.050	10/30/2012	ND	2.49	124	2.00	17.3	
Ethylbenzene*	<0.050	0.050	10/30/2012	ND	2.48	124	2.00	17.4	
Total Xylenes*	<0.150	0.150	10/30/2012	ND	7.46	124	6.00	17.3	
Total BTEX	<0.300	0.300	10/30/2012	ND					
Surrogate 4-Biomofluorobenzene (PIL	106	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/26/2012	ND	199	99.6	200	0.0954	
DRO >C10-C28	<10.0	10.0	10/26/2012	ND	218	109	200	2.13	

#### Cardinal Laboratories

Surrogate 1-Chlorooctane

Surrogate 1-Chlorooctadecane

882%

980%

65 2-140

63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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### **Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500CI-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 Di Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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October 31, 2012

AMANDA TRUJILLO Yates Energy Petroleum Corp 105 S 4th Street Artesia, NM 88210

RE: ANENOME BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/25/12 9:50.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes.

Cardinal Laboratories is accreditated 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,

Celes D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1.of 4.



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## Analytical Results For:

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

Received:	10/25/2012	Sampling Date:	10/17/2012
Reported:	10/31/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SECTION 9 T22S R24E		

## Sample ID: MIDDLE 2' (H202600-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/29/2012	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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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 $6^{\circ}\text{C}$
	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

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