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

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JOHN D. PERINI CHIEF FINANCIAL OFFICER

JORGE 5. MENDOZA CHIEF ADMINISTRATIVE OFFICER

2RA-750 2RA-251 2RA-765

October 18, 2012

Atten: Mike Bratcher

NM Oil Conservation Division

۰.

District 2 Office

Artesia, NM 88220-6292

Mr. Bratcher:

Yates Petroleum Corp would like to request closure of the Anemone ANE Federal #2 for the releases occurring on January 20, 2011, April 15, 2011, and April 22, 2011. Request for closure is based on a site ranking of Zero (0). Below is a summary of analytical findings. The official reports are enclosed.

Site Ranking Zero Depth to Groundwater 585'				
	BTEX	GRO	DRO	Chloride
West Excavation S1	1.962	96.2	3040	32
West Excavation S2	0.515	20.4	1250	64
Slop Tank	6 893	366	3390	16
Middle Excavation	1.815	51.7	1980	167
East Excavation	ND	ND	155	47.4

Thank you,

YATES PETROLEUM CORPORATION

Amanda Trujillo

KATHY H. PORTER SECRETARY

DENNIS G. KINSEY TREASURER





October 05, 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 www.tceq.texas.gov/field/qa/lab_accred_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,

. . Eliz Littere

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:	10/05/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

Sample ID: WEST EXC SAMPLE 1 (H202393-01)

BTEX 8021B	mg/	kg	Analyze	ed By: AP					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.155	0.050	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	0.067	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	1.74 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	268 9	6 89 4-12	6						
TPH 8015M	mg/	kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	96.2	50.0	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	3040	50.0	10/04/2012	ND	201	101	200	7.92	
Surrogate 1-Chlorooctane	105 %	65 2-14	0						
Surrogate 1-Chlorooctadecane	1739	6 63 6-15	4						

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PI-AST: NOTE Lability and Damages Cardinal's liability and client's exclusive remedy for any dawn 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 cuses whatsbeever shall be deemed waved unless made in whing and received by Cardinal within thirty (30) days alter completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, micluling, without limitation, business interruptions, loss of use, or loss of profits running by client, its subsidiaries, affiliates or succession's ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated researces or otherwase.

Check in theme-

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:	10/05/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

Sample ID: WEST EXC SAMPLE 2 (H202393-02)

BTEX 8021B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.103	0.050	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	0.345	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	0.067	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	109 %	6 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	20.4	10.0	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	1250	10.0	10/04/2012	ND	201	101	200	7.92	
Surrogate 1-Chlorooctane	9069	6 65 2-14	0					_ . 	
Surrogate 1-Chlorooctadecane	126%	6 63 6-15	4						

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*=Accredited Analyte

IPIFASE NOTE Lability and Damages Cardinal's lability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be functed to the amount paid by client for analyses. All claims, including those for negligence and inv other cause whistoever 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 Cardinal be labile for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affliates or successors anong out of or related to the performance of the services hereunder by Cardinal, regarilless of vinether such climit is based upon any of the above stated reasons or otherwase. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Jelley Latrene-

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
4.1	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

MIASE NOTE. Lubbly and Damages Cardinal's 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 chaims, including those for negligence and inty oliter cause whatsoever shall be deemed waved unless made in writing and received by claims, including those for negligence and intro oliter cause whatsoever shall be deemed waved unless made in writing and received by claimal, writing and another thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inordenial or consequential damages, inclusion, business mitemptions, loss of use, or loss of profits incurred by client, its substances, affiliates or successors aroung out of or related to the performance of the services likelunder by Cardinal, regardless of whether such dum is busied upon any of the above stated restores or otherwise. Results relate only to the samples identified above. This report shall note expreduced except in full with intern approval of Cardinal Libbraries.

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Celey D. Keene, Lab Director/Quality Manager

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	City/State/Zip.	Artesia, NM 88	210														_			P	D #:											
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October 05, 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.

D,

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.lceq.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)

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,

Celeg - Here

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:	10/05/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	<pre>** (See Notes)</pre>
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

Sample ID: WEST EXC SAMPLE 1 (H202393-01)

Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM				- ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/05/2012	ND	400	100	400	0.00	

Sample ID: WEST EXC SAMPLE 2 (H202393-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/05/2012	ND	400	100	400	0.00	

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PERASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim ansing, whether based in contract or tort, sival be limited to the amount paid by client for analyses. All claims, including those for negligence and any otily cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without intribution, bisness interruptions, loss of use, or loss of profits incident by client, its subsidiantes, affiliates or successoria ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samplesident/edited above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPID	Relative Percent Difference
*	Samples not received at proper temperature of 6°C or below.
ሾትተ	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

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

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City/State/Zip. Artesia, NM 88210		, ,														PO #	:							····			
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October 18, 2011

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

RE: ANENOME ANE FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 10/12/11 10:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Totai Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:	10/12/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	ANENOME ANE FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WEST SIDE (H102198-01)

BTEX 8021B	mg/l	kg	Analyze		S-04				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2011	ND	2.08	104	2.00	0.829	
Toluene*	3.87	0.050	10/14/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	2.95	0.050	10/14/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	5.54	0.150	10/14/2011	ND	6.20	103	6.00	1.33	
Surrogate 4-Bromofluorobenzene (PIL	411%	64 4-13	4				· · · · · · · · · · · · · · · · · · ·		
TPH 8015M	mg/l	g	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1320	50.0	10/12/2011	ND	173	86.5	200	0.679	
DRO >C10-C28	5290	50.0	10/12/2011	ND	167	83.4	200	0.0336	
Surrogate · 1-Chlorooctane	112 %	55 5-15-	4						
Surrogate 1-Chlorooctadecane	113 %	57.6-150	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Lability and Damages Cardinal's 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 whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for inodental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Celeg Di 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:	10/12/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	ANENOME ANE FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SLOP TANK (H102198-02)

BTEX 8021B	mg/l	kg	Analyze		S-04				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2011	ND	2.08	104	2.00	0.829	
Toluene*	0.913	0.050	10/14/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	2,22	0.050	10/14/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	3.76	0.150	10/14/2011	ND	6.20	103	6.00	1.33	
Surrogate 4-Bromofluorobenzene (PIL	230 %	64 4-13	4						
TPH 8015M	mg/l	(g	Analyze	d By: AB		······			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	366	10.0	10/12/2011	ND	173	86.5	200	0.679	
DRO >C10-C28	3390	10.0	10/12/2011	ND	167	83.4	200	0.0336	
Surrogate I-Chlorooctane	111 %	55 5-15-	4						
Surrogate 1-Chlorooctadecane	132 %	57.6-158	8						

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PEASE NOTE Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim ansing, whether bised 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 waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated research or dom's or difference.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

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LAB # (tab use only)	FIE	LD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total ≄. of Containers	lce	HNO ₃	HCI H.SO,	NaOH	Na ₂ S ₂ O ₃	Nane	Other (Specify)	DW≠Drinking Water_SL≭Sliudge	GW = Groundwater S = SolifSolio NP=Non-Potable Specify Other	TPH: 418 10 8015MERCE	TPH- TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SOL, Alkalinity)	SAR / ESP / CEC	Meta's As Ag Ba Cd Cr Pti Hg	Volatiles	Semivoraties	RCI	N O R M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24	Standard TAT
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October 18, 2011

AMANDA TRUJILLO Yates Energy Petroleum Corp 105 S 4th Street

Artesia, NM 88210

RE: ANENOME ANE FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 10/12/11 10:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:	10/12/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	ANENOME ANE FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WEST SIDE (H102198-01)

Chloride, SM4500CI-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	10/15/2011	ND	400	100	400	11.3	

Sample ID: SLOP TANK (H102198-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2011	ND	400	100	400	11.3	

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PLEXEE NOTE Liability and Damages. Cardinal's 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 whatscever shall be deemed waved unless made in whiting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inodential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substaines, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based ono any of the above stated reasons or otherwse. Results relate only to the samples identified above. This report shall not be reporticed exception for limits approval of Cardinal Laborationes.

Celeg L. Keene

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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 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

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Celey Di Kerne

Celey D. Keene, Lab Director/Quality Manager

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Analytical Report 426797

for Yates Petroleum Corporation

Project Manager: Amanda Trujillo

Amenome Battery

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
 Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
 New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
 Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): - Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), West Virginia (362), Kentucky (85) - Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



08-SEP-11



Project Manager: **Amanda Trujillo Yates Petroleum Corporation** 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426797 Amenome Battery Project Address:

Amanda Trujillo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426797. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426797 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

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Respectfully,

Brent Barron II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



10. Byrmariganif In the Usan watch is have Sample Cross Reference 426797



Yates Petroleum Corporation, Artesia, NM

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Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West	S	08-30-11 09:30	3 - 3.5 ft	426797-001
Middle	S	08-30-11 09:30	2 - 2.5 ft	426797-002
East	S	08-30-11 09:30	4 - 4.5 ft	426797-003



Client Name: Yates Petroleum Corporation Project Name: Amenome Battery



Project ID: Work Order Number: 426797 Report Date: 08-SEP-11 Date Received: 08/31/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869210 BTEX by EPA 8021B SW8021BM

Batch 869210, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 426797-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 426797-002, -003.

SW8021BM

Batch 869210, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 426797-002, -003, -001. The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

Batch: LBA-869326 TPH By SW8015B Mod SW8015B_NM

Batch 869326, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Blank Spike Duplicate however was within limits for the Blank Spike, therefore data is reported as is. Samples affected are: 426797-002, -003, -001.



Project Location:

Project Id:

Contact: Amanda Trujillo

Certificate of Analysis Summary 426797

Yates Petroleum Corporation, Artesia, NM

Project Name: Amenome Battery



Date Received in Lab: Wed Aug-31-11 10:00 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

	Lab Id:	426797-0	01	426797-0	002	426797-0	03		
Amalusia Doguostad	Field Id:	East West	-	Middle	e	East	mest		
Analysis Kequestea	Depth:	3-3.5 fi	t	2-2.5 f	ì Ì	4-4.5 ft	t		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Aug-30-11	09:30	Aug-30-11	09 30	Aug-30-11 (09.30		
BTEX by EPA 8021B	Extracted:	Sep-02-11	12.00	Sep-02-11	12 00	Sep-02-11 1	12.00		
	Analyzed:	Sep-03-11	15-21	Sep-03-11	15.44	Sep-03-11 1	16.08		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		† ND	0 00537	ND	0 00506	ND	0 203		
Toluene		ND	0 0107	ND	0 0101	0 514	0 407		
Ethylbenzene	**************************************	ND	0 00537	0111	0 00506	1.28	0 203		
m_p-Xylenes		' ND	0 0107	0 221	0 0101	9 49	0.407		
o-Xylene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ND	0 00537	0 310	0 00506	2 53	0 203		
Total Xylenes		ND	0 00537	0 531	0 00506	12.0	0 203		
Total BTEX	(4, 1) (4 p = 1, -, -, -, -, -, -, -, -, -, -, -, -, -,	ND	0 00537	0 642	0 00506	13.8	0.203	 	
Percent Moisture	Extracted:	r							
	Analyzed:	Aug-31-11	15.55	Aug-31-11	15.55	Aug-31-11	15:55		
	Units/RL:	, %	RL	%	RL	%	RL		
Percent Moisture	al (n. 1970), for an and an	6 83	1.00	1.79	1 00	1.84	1.00		
TPH By SW8015B Mod	Extracted:	Sep-01-11	13.40	Sep-01-11	13.40	Sep-01-11	13.40		
	Analyzed:	Sep-03-11	05 13	Sep-03-11	05:44	Sep-03-11 (06.15		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons	e i 'n werden in der einen anderen ande	ND	161	517	15.3	595	76.1		
C10-C28 Diesel Range Hydrocarbons	na ladit na fan'ny distanti (na distanti).	155	16.1	1980	15.3	7030	76.1		
Total TPH		155	161	2030	153	7630	76.1		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO 1 aboratories XENCO Laboratories assumes no responsibility and nakes no warranty to the cnd use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in winning

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Brent Barron II

Odessa Laboratory Manager

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Final 1.000



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation
DL Method Detection Limit		
NC Non-Calculable		
+ Outside XENCO's scope of NEL	AC Accreditation.	

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Project Name: Amenome Battery

Work Orders : 426797, Lab Batch #: 869326	Sample: 426797-001 / SMP	Bate	Project II	D: : Soil		
Units: mg/kg	Date Analyzed: 09/03/11 05:13	SU	RROGATE R	ECOVERY	STUDY	
ТРН Ву	SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
l A	Analytes			[D]		
1-Chlorooctane		109	99.8	109	70-135	
o-Terphenyl		56 6	49.9	113	70-135	
Lab Batch #: 869326	Sample: 426797-002 / SMP	Bate	h: l Matrix	:Soil		
Units: mg/kg	Date Analyzed: 09/03/11 05:44	SU	RROGATE RI	ECOVERY	STUDY	
ТРН Ву	SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		113	99.9	113	70-135	
o-Terphenyl		60 0	50.0	120	70-135	
Lab Batch #: 869326	Sample: 426797-003 / SMP	Bate	h: ¹ Matrix	Soil		en ander verste die en weer weer die en weer weer die en weer die en weer die en weer die en weer weer die en w
Units: mg/kg	Date Analyzed: 09/03/11 06.15	SU	RROGATE RI	ECOVERY	STUDY	
ТРН Ву	SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
L-Chlorooctane		114	99.6	114	70-135	
o-Terphenyl		45 2	49.8	91	70-135	
Lab Batch #: 869210	Sample: 426797-001 / SMP	Batel	h: 1 Matrix:	Soil	1 <u></u> 1	ini wana ka ta ka
Units: mg/kg	Date Analyzed: 09/03/11 15:21	SU	RROGATE RI	ECOVERY	STUDY	<u> </u>
BTEX	by EPA 8021B	Amount Found [A]	True Amount [Bj	Recovery %R [D]	Control Limits %R	Flags
1.4-Dutluorobenzene		0.0287	0.0300	96	80-120	
4-Bromofluorobenzene		·0 0198	0.0300	• • • 66	80-120	*
Lab Batch #: 869210	Sample: 426797-002 / SMP	Batel	n: ¹ Matrix:	Soil	<u> </u> _	
Units: mg/kg	Date Analyzed: 09/03/11 15:44	SU	RROGATE RE	COVERYS	STUDY	
BTEXI	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
L4-Difluorobenzene		0.0253	0.0300	. , 84	80-120	· · · - · · · · · · · · · · · · · · · ·
4-Bromofluorobenzene		0 0505	0.0300	168	80-120	*

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.

- . ..



Project Name: Amenome Battery

Work Orders : 426797	, Sample: 426797-003 / SMP	Bate	Project II	D: • Soil		
Units: mg/kg	Date Analyzed: 09/03/11 16:08	SU SU	RROGATE RI	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			וסן		
1,4-Difluorobenzene		0.0260	0 0300	87	80-120	
4-Bromofluorobenzene		0.0435	0 0300	145	80-120	*
Lab Batch #: 869326	Sample: 610994-1-BLK / B	LK Batc	h: l Matrix	:Solid		
Units: mg/kg	Date Analyzed: 09/03/11 02:06	SU	RROGATE RI	ECOVERY	STUDY	
ТРН В	y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		86.1	100	86	70-135	
o-Terphenyl		44.4	50.0	89	70-135	
Lab Batch #: 869210	Sample: 610920-1-BLK / B	LK Bate	h: 1 Matrix:	Solid	<u>1</u>	panya ipa Wining Malance
Units: mg/kg	Date Analyzed: 09/03/11 08:30	SU	RROGATE RI	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		<u> </u>
1,4-Difluorobenzene		0.0282	0 0300	94	80-120	
4-Bromofluorobenzene		0.0256	0 0300	85	80-120	
Lab Batch #: 869326	Sample: 610994-1-BKS / BF	KS Batc	h: l Matrix:	Solid		
Units: mg/kg	Date Analyzed: 09/03/11 01:03	SU	RROGATE RF	COVERY S	STUDY	
ТРН В	y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
l-Chlorooctane		101	100	101	70-135	
o-Terphenyl	· · · · · · · · · · ·	42.9	50.1	86	70-135	- ·
Lab Batch #: 869210	Sample: 610920-1-BKS / BI	KS Batel	h: ¹ Matrix:	Solid		
Units: mg/kg	Date Analyzed: 09/03/11 06:59	SU	RROGATE RE	COVERY S	STUDY	.
BTEX	by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0 0297	0.0300	99	80-120	
4-Bromofluorobenzene		0.0279	0.0300	93	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Project Name: Amenome Battery

Work Orders : 426797	l,		Project II	D:		
Lab Batch #: 869326	Sample: 610994-1-85078	SD Bater	a: 1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 09/03/11 01:34	501	KRUGAIE KI	ECOVERT	SIUDY	
Трн в	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[u]		<u> </u>
I-Chlorooctane		96.2	99.9	96	70-135	
o-Terphenyl		40 5	50 0	81	70-135	L
Lab Batch #: 869210	Sample: 610920-1-BSD / B	SD Batch	n: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 09/03/11 07:21	SU	RROGATE RI	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0285	0.0300	95	80-120	
4-Bromofluorobenzene		0 0279	0.0300	93	80-120	
Lab Batch #: 869326	Sample: 426704-001 S / MS	S Batcł	n: 1 Matrix	: Soil	1	
Units: mg/kg	Date Analyzed: 09/03/11 10:32	SUI	RROGATE RI	ECOVERYS	STUDY	<u> </u>
ТРН В	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Anarytes	112	101	111	70-135	
o-Terphenyl		46.3	50.3	92	70-135	
Lah Batch #: 869210	Sample: 426978-002 S / MS	S Batch	•• I Matrix:	• Soil		
Units: mg/kg	Date Analyzed: 09/03/11 12:43	SUI	RROGATE RE	ECOVERY S	STUDY	
BTEX	6 by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorobenzene	Aharytes	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene		0.0234	- 0.0300	92 -	80-120	
I ab Ratch #. 869326	Sample: 426704-001 SD / N	ASD Batch	·· 1 Matrix:	· Soil		ani ang sa
Units: mg/kg	Date Analyzed: 09/03/11 11:03	SUI	RROGATE RF	ECOVERY S	STUDY	
TPH B	y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		102	99 5	103	70-135	
o-Terphenyl		40.8	49 8	82	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes



Project Name: Amenome Battery

Work Orders: 426797	,		Project I	D:							
Lab Batch #: 869210	Sample: 426978-002 SD / I	MSD Batch: 1 Matrix: Soil									
Units: mg/kg	Date Analyzed: 09/03/11 13:05	Pate Analyzed: 09/03/11 13:05 SURROGATE RECOVERY STUDY									
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes										
1,4-Difluorobenzene		0 0264	0.0300	88	80-120						
4-Bromotluorobenzene		0.0257	0.0300	86	80-120						

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes



BS / BSD Recoveries

and and a second second with the second s

Project Name: Amenome Battery

Work Order #: 426797		Da	ite Prenar	ed: 09/02/201	1			Proj Date Ar	ect ID: alvzed: 0	9/03/2011				
Lab Batch ID: 869210	Sample: 610920-1-BKS	KS Batch #: 1					Matrix: Solid							
Units: mg/kg			BLAN	K/BLANK S	PIKE / B	LANK S	PIKE DUPI	JCATE I	RECOVE	RY STUD	Y			
BTEX by EPA 8	021B Sa	Blank Imple Result A	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes			נמן		וטן	[E]	Kesuit [r]							
Benzene		<0 00100	0.100	0.111	111	0.100	0.108	108	3	70-130	35			
Toluene		<0 00200	0 100	0 0974	97	0.100	0.0965	97	1	70-130	35			
Ethylbenzene		<0 00100	0.100	0.105	105	0.100	0 104	104	l	71-129	35			
m_p-Xylenes		<0.00200	0.200	0.209	105	0.200	0 209	105	0	70-135	35			
o-Xylene		<0 00100	0 100	0 0980	98	0.100	0.0975	98	1	71-133	35			
Analyst: BBH		Da	ate Prepar	ed: 09/01/201	ι	Date Analyzed: 09/03/2011								
Lab Batch ID: 869326	Sample: 610994-1-BKS	S,	Bate	h #: 1					Matrix: S	olid				
Units: mg/kg		,	BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE	RECOVE	RY STUD	Y			
TPH By SW80151 Analytes	B Mod Sa	Blank ample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag		
C6-C10 Gasoline Range Hydrocarb	ons	<15.0	1000	706	71	999	678	68	4	70-135	35	L		
C10-C28 Diesel Range Hydrocarbo	ns	<150	1000	814	81	999	784	78	4	70-135	35			

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Project Name: Amenome Battery



Work Order #: 426797						Project II	D:				
Lab Batch ID: 869210 Date Analyzed: 09/03/2011	QC- Sample ID: Date Prepared:	426978 09/02/2	-002 S 011	Ba An	tch #: alyst:	l Matri ASA	k: Soil				
Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Benzene	<0 000998	0.0998	0.0798	80	0 100	0 0718	72	11	70-130	35	
Toluene	<0.00200	0.0998	0.0665	67	0 100	0.0580	58	14	70-130	35	X
Ethylbenzene	<0 000998	0.0998	0 0641	64	0.100	0.0520	52	21	71-129	35	X
m_p-Xylenes	<0.00200	0.200	0.123	62	0.200	0.0983	49	22	70-135	35	X
o-Xylene	<0 000998	0 0998	0.0543	54	0 100	0.0438	44	21	71-133	35	X
Lab Batch ID: 869326	QC- Sample ID:	426704	-001 S	Ba	itch #:	l Matri	x: Soil				
Date Analyzed: 09/03/2011	Date Prepared:	09/01/2	011	An	alyst:	BBH					
Reporting Units: mg/kg		Ñ	IATRIX SPIK	E / MAT	'RIX SPI	IKE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015B Mod	Parent Sample Posult	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]		76R [D]	E]	Result [F]	-76R [G]	70	-76K	70KFD	
C6-C10 Gasoline Range Hydrocarbons	<16.3	1090	810	74	1080	762	71	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<163	1090	988	91	1080	895	83	10	70-135	35	

Matux Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}[(C-T)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Amenome Battery

Work Order #: 426797

Lab Batch #: 868917			Project I	D:	
Date Analyzed: 08/31/2011 15.55	Date Prepared: 08/31/201	Ana Ana	lyst:BRB		
QC- Sample ID: 426801-003 D	Batch #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte	[0]	[B]		///// 2	
Percent Moisture	<1.00	<1.00	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

XEN	ICO								1260 Ode)0 V ssa	(Vest 1, Te	CH) : 1-2 xas	A/N 0 Ea: 797	OF (st 65	cus	τοε	DY R	ECC	ORL) AI	VD .	ANA P	4 <i>L</i> Y hor Fax	′S/S ne:	: RE 432- 432-	QU 563 563	ES7 -180 -171	r 10 3				
F	Project Manager.	Amanda Trujilo	·····														Pro	oject	t Nai	me:				A	mer	nom	ie B	atte	ery			
(Company Name	Yates Petroleum Corpo	oration					_	. ==				<u> </u>			_		Pr	ojec	:t #:	•											
(Company Address	105 South 4th Street														-	F	Proje	ect L	.oc:												
(City/State/Zip	Artesia, NM 88210										a				_			P	D #:	126	93										
-	Telephone No:	575-748-	4310			Fax No:	-	575	5-748	458	35		_			R	epor	t Fo	rmai	t:	X	Star	ndar	d	Γ	∃т	RRF	Э	Γ		DE	5
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(lab use or			<u></u>				-										··	F			TC	LP	An	alyz	e For			_			T	
ORDER	#: 47/079-	7/476798		,				1	P	rese	watio	n & #	of Co			M	atrix		т—		TO	TAL	-		1						72 hrs	
200 100 200 200 200 200 200 200 200 200	FIE N	LD CODE West Aiddle East	4, 5, Beginning Depth	4100 Gebpty 3.5" 2.5" 4.5"	9 6 7 8/30/2011 8/30/2011 8/30/2011	eq June 2005 Pino AM 9:30 AM 9:30 AM 9:30 AM	Field Filtered	Total # of Containers	80 X X X	HNO ₃	HCI	H ₂ SO4	HOEN	Solo Solo	Other (Specify)	DW⊨Drnkung Water SL=Sludge	O O C GW = Groundwater S=Sol/Solid	X X X TPH. 418 1 8015M 8015	TPH. 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	Votatiles	Semivolatiles	X X X BIEX 80278/3030 of BIEX 8250	NCI NOD MOD				RUSH TAT (Pre-Schedule) 24, 48	X X Standard TAT
																		 								_		\downarrow		–	 	
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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist Document No.. SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

ł

Client:	Yaks Pe	troleum
Date/Time	8.51.11	10.00
Lab ID # :	420	2797/426798
Initials:		<u>9</u> 2

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	Na		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No -		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Øes	No		
14. Sufficient sample amount for indicated test(s)?	Tes	No		
15. All samples received within sufficient hold time?	Ť	No		
16. Subcontract of sample(s)?	Yes	No	NÀ	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No		Cooler 5 No.	
Ibs /.5 °C Ibs °C Ibs °t	C Ibs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Tal			
			<u> </u>
Check all that apply:	□ Cooling process has begun shortly after sa condition acceptable by NELAC 5.5.8	mpling event and out of temperature .3.1.a.1.	

□ Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis

Analytical Report 426798

for Yates Petroleum Corporation

Project Manager: Amanda Trujillo

Amenome Battery

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



08-SEP-11



Project Manager: Amanda Trujillo Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426798 Amenome Battery Project Address:

Amanda Trujillo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426798. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426798 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

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.



Sample Cross Reference 426798

Yates Petroleum Corporation, Artesia, NM

Amenome Battery

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	08-30-11 09:30	3 - 3.5 ft	426798-001
S	08-30-11 09:30	2 - 2.5 ft	426798-002
S	08-30-11 09:30	4 - 4.5 ft	426798-003
	Matrix S S S	MatrixDate CollectedS08-30-11 09:30S08-30-11 09:30S08-30-11 09:30	Matrix Date Collected Sample Depth S 08-30-11 09:30 3 - 3.5 ft S 08-30-11 09:30 2 - 2.5 ft S 08-30-11 09:30 4 - 4.5 ft



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Amenome Battery



Project ID: Work Order Number: 426798 Report Date: 08-SEP-11 Date Received: 08/31/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Project Id:

Contact: Amanda Trujillo

Certificate of Analysis Summary 426798

Yates Petroleum Corporation, Artesia, NM



Project Name: Amenome Battery

Date Received in Lab: Wed Aug-31-11 10.00 am

Report Date: 08-SEP-11

Project Location:

- - -

Project Manager: Brent Barron II Lab Id: 426798-001 426798-002 426798-003 Field Id: West Middle East Analysis Requested 3-3.5 ft 2-2.5 ft 4-45 ft Depth: Matrix: SOIL SOIL SOIL Aug-30-11 09.30 Aug-30-11 09.30 Sampled: Aug-30-11 09.30 Anions by E300 Extracted: Sep-01-11 08:19 Sep-01-11 08:19 Sep-01-11 08:19 Analyzed: Units/RL: RL mg/kg mg/kg RL mg/kg RL Chloride 382 9 02 167 8.55 47.4 4.28 **Percent Moisture** Extracted: Aug-31-11 15:55 Aug-31-11 15.55 Aug-31-11 15:55 Analyzed: Units/RL: % RL % RL % RL 6 83 1 00 Percent Moisture 1.79 1.00 1.84 1 00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our lability to limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron II

Odessa Laboratory Manager

Final 1.000



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation
DL Method Detection Limit		

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	





Project Name: Amenome Battery

Work Order #: 426798 Analyst: BRB		Date Prepared: 09/01/2011				Project ID: Date Analyzed: 09/01/2011						
Lab Batch ID: 869030	Sample: 869030-1-BKS	BKS Batch #: 1					Matrix: Solid					
Units: mg/kg		·····	BLAN	K /BLANK S	PIKE / E	BLANK S	PIKE DUPL	ICATE	RECOVE	ERY STUD	Y	
Anions by E	E300 B Samp	lank de Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		0.840	20 0	22.6	113	20.0	22.4	112	1	75-125	20	
		1			1	1					1 1	1

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Flag

Project Name: Amenome Battery

Work Order #: 426798							
Lab Batch #: 869030	Project ID:						
Date Analyzed: 09/01/2011	Date Prepared: 09/01/2011	An	Analyst: BRB Matrix: Soil				
QC-Sample ID: 426798-001 S	Batch #: 1	M					
Reporting Units: mg/kg	MATRIX /	MATRIX SPIKE	RECOVERY STU	JDY			
Inorganic Anions by EPA 300	Parent Sample Spi Result Add	ke Result	%R Limits				
Analytes	[A] [B						
Chloride	382 21	5 647	123 75-125	Τ			

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Work Order #: 426798

Sample Duplicate Recovery



Project Name: Amenome Battery

Lab Batch #: 869030 Date Analyzed: 09/01/2011 08:19 Date Pro QC- Sample ID: 426798-001 D B	epared: 09/01/201 Satch #: 1	l Ana Mat	Project I lyst:BRB trix: Soil	D:	
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]	_!		
Chloride	382	387	1	20	
Lab Batch #: 868917					
Date Analyzed: 08/31/2011 15:55 Date Pro	pared: 08/31/2011	l Ana!	lyst:BRB		
QC- Sample ID: 426801-003 D B	atch #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC.	ATE RECO	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	<1.00	<1.00	0	20	[

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes BRL - Below Reporting Limit **XENCO** CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 12600 West I-20 East Phone, 432-563-1800 Odessa, Texas 79765 Fax: 432-563-1713 Project Manager: Project Name[,] Amenome Battery Amanda Truillo Company Name Yates Petroleum Corporation Project #._____ Company Address: 105 South 4th Street Project Loc: City/State/Zip Artesia, NM 88210 PO #: 12693 NPDES Report Format: X Standard TRRP Telephone No: Fax No[.] 575-748-4310 575-748-4585 Sampler Signature e-mail. atrujillo@yatespetroleum.com Analyze For. (lab use only) TCLP. C1 r, TOTAL 4710797 4710798 48, 721 ORDER #: Preservation & # of Containers Matrix 8015B Se BTEX 8021B/5030 or BTEX 8260 TX 1006 ĥ RUSH TAT (Pre-Schedule) 24, S=Soil/Solid Anions (Cl, SO4, Alkalinity) DW=Drinking Water SL=Sludge Vietals As Ag Ba Cd Cr Pb 8015M # (lab use only) Ŷ Beginning Depth Total # of Containers Ъа, Time Sampled Date Sampled Ending Depth SAR / ESP / CEC TX 1005 Cations (Ca. Mg. cify) GW = Groundwater 4181 JP=Non-Potable Semivolatiles ield Filtered Other (Spe Standard NaOH Na₂S₂O₃ Chlorides NORM Volatiles HCI H₂SO. НЫ TLCP [₽]ONH None ТРН. AB AB RCI lce FIELD CODE 001 3' 3 5" 9:30 AM West 8/30/2011 S х х х х Х COL Middle 2' 2 5" 8/30/2011 9:30 AM S х х х х an 4' 4.5" East 8/30/2011 9:30 AM S х х х х Special Instructions: Please put each well location in separate report Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Relinquistred by. Date Time Received by: Date Time Labels on container(s) Custody seals on container(s) 08/30/11 3 15 PM Custody seals on cooler(s) Time Received by Date Sample Hand Delivered Date Time by Sampler/Client Rep ? by Courier? UPS DHL 4 0 2 9 1955 Temperature Upon Receipt Relinquished by Received by ELOT Date Time Date Time °C 2 dex 8.31.11 .S 10.00

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Final 1 000



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Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title Sample Receipt Checklist Document No . SYS-SRC Revision/Date. No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

e

Client:	aks Petr	oleum
Date/Time:	8.51.11	10.00
Lab 1D # :	426-	197/426798
Initials:	G	<u> </u>

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Tes)	No	N/A	
4. Chain of Custody present?	(Jes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	Na		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample labei(s)?	/Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No ·		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Des	No		
14. Sufficient sample amount for indicated test(s)?	Tes	No		
15. All samples received within sufficient hold time?	Tes	No		
16. Subcontract of sample(s)?	Yes	No	NÀ	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	».	Cooler 5 No.	
lbs /.5 °C lbs °C lbs °C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Tal	en:	
Check all that apply:	Cooling process has begun shortly after condition acceptable by NELAC 5. Initial and Backup Temperature confirm	sampling event and out of temperature i.8.3.1.a.1. out of temperature conditions

Client understands and would like to proceed with analysis