Bratcher, Mike, EMNRD

From: Sent: To: Cc: Subject: Bratcher, Mike, EMNRD Thursday, September 22, 2011 1:17 PM 'Amber Cannon' Bob Asher RE: Graham AKB State #8

Reference: Yates Petroleum * Graham AKB St 8 * 30-015-31913 * E-2-22s-31e * Eddy County, New Mexico DOR: 8/7/11 * 2RP-875

Amber,

My thanks to you and Bob for meeting with me this morning to discuss the Loving AIB site, and the above referenced Graham site. In regard to the Graham site, as discussed, OCD would prefer to have the soils in the area identified in yellow on your chart, excavated and hauled to disposal, through the 3' interval. Your alternative proposal to remove a portion of the impacted soils (2' across the impacted area) and then blend remaining impacted material with clean soil would be approved with the condition that the blended material provide 4' of soil with chloride levels that would be conducive to re-vegetation of native plants in the area.

If you have any questions or concerns, please contact me.

Mihe Bratcher

NMOCD District 2 811 S. First Street Artesia, NM 88210 575-748-1283 Ext. 108 575-626-0857 mike.bratcher@state.nm.us

From: Amber Cannon [mailto:ACannon@yatespetroleum.com] Sent: Wednesday, September 21, 2011 9:41 AM To: Bratcher, Mike, EMNRD Cc: Bob Asher Subject: Graham AKB State #8

Mike,

The following analytical results are for your review. Yates originally sampled the release area on 8/12/2011. At this time, the release area was split into sections "A" and "B". The BTEX/TPH results came back within limits for section "A", but the Chlorides were still high. I returned to the site 9/13/2011 and sampled section "A" for Chloride delineation. Section "B" TPH/BTEX/Chlorides were at acceptable levels after the first sampling date and further sampling was not conducted on second visit. If these results are acceptable, Yates would like to then request closure.

Please call me if you have any questions.

Graham AKB State #8

Analytical Report- 425794 & 425795	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01 0A	Release Area	8/12/2011	Comp/Auger	1'	3.29	203	1020	1220	4,470
Comp-02.0A	Release Area	8/12/2011	Comp/Auger	2'	0.204	64.2	632	696	5,360
Comp-03.0A	Release Area	8/12/2011	Comp/Auger	3'	ND _	ND	106	106	5,560
Comp-01:0B	Release Area	8/12/2011	Comp/Auger	1'	ND	ND	296	296	942
Comp-02.0B	Release Area	8/12/2011	Comp/Auger	2'	ND	ND	55.1	55 1	218
Analytical Report- 427563	Sample	Sample Date	Sample Type	Depth	втех	GRO	DRO	TOTAL	Chlorides
Grab-04.0	Release Area	9/13/2011	Grab/Backhoe	4'	ANALYSIS NO			AS VATES	1,780
Grab-05.0	Release Area	9/13/2011	Grab/Backhoe	5'	WAS IN LIMIT	S FROM	I FIRST		39.9
Grab-06.0	Release Area	9/13/2011	Grab/Backhoe	6'		KEN 8/1	2/2011		7.7

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 124'). All results are ppm. Chlorides for documentation. **X - Sample**

Points

Released: 42 B/PW, 6 B/O; Recovered: 0 B/PW, 0 B/O. Release Date: 8/7/2011

Thank you.

Amber Cannon Environmental Regulatory Agent Yates Petroleum Corporation Office: (575) 748-4111 Cell: (575) 513-8799 acannon@yatespetroleum.com

Bratcher, Mike, EMNRD

From:	Amber Cannon [ACannon@yatespetroleum.com]
Sent:	Wednesday, September 21, 2011 9:41 AM
To:	Bratcher, Mike, EMNRD
Cc:	Bob Asher
Subject:	Graham AKB State #8
Attachments:	GrahamAKBState8_SampleResults.pdf
Follow Up Flag:	Follow up
Flag Status:	Flagged

Mike,

The following analytical results are for your review. Yates originally sampled the release area on 8/12/2011. At this time, the release area was split into sections "A" and "B". The BTEX/TPH results came back within limits for section "A", but the Chlorides were still high. I returned to the site 9/13/2011 and sampled section "A" for Chloride delineation. Section "B" TPH/BTEX/Chlorides were at acceptable levels after the first sampling date and further sampling was not conducted on second visit. If these results are acceptable, Yates would like to then request closure.

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Graham AKB State #8

Analytical Report 425794 & 425795	Sample Area	Sample Date	Sample Tiype	Depth	BTEX	GRO	DRO	TOTAL	Chilorides
Comp-01.0A	Release Area	8/12/2011	Comp/Auger	1'	3 29	_ 203	1020	1220	4,470
Comp-02.0A	Release Area	8/12/2011	Comp/Auger	2'	0.204	64.2	632	696	5,360
Comp-03.0A	Release Area	8/12/2011	Comp/Auger	3'	ND	ND	106	106	5,560
Čomp-01.0B	Release Area	8/12/2011	Comp/Auger	1'	ND	ND	296	296	942
Comp-02.0B	Release Area	8/12/2011	Comp/Auger	2'	ND	ND	55.1	55.1	218
							and the second sec		
Analytical Report 427/563	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab-04.0	Release Area	9/13/2011	Grab/Backhoe	4'	ANALYSIS NO			AS VATES	1,780
<u>G</u> rab-05.0	Release Area	9/13/2011	Grab/Backhoe	5'	WAS IN LIMIT		I FIRST		39.9
Grab-06.0	Release Area	9/13/2011	Grab/Backhoe	6'		NREIN 0/			7.7

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Thank you.

Amber Cannon Environmental Regulatory Agent Yates Petroleum Corporation Office: (575) 748-4111 Cell: (575) 513-8799 acannon@yatespetroleum.com

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Analytical Report 425794

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Graham AKB State #8

30-015-31913

24-AUG-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: AZ00989): Arizona (AZ0758)

Final 1,000







Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 425794 Graham AKB State # 8 Project Address: Eddy County

Amber Cannon:

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 425794. 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. 425794 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 425794



Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

(m¹) 2 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0 A	S	08-12-11 11:27	1 - 1 ft	425794-001
Comp-02.0 A	S	08-12-11 11:54	2 - 2 ft	. 425794-002
Comp-03.0 A	S	08-12-11 12:33	3 - 3 ft	425794-003
Comp-01.0 B	S	08-12-11 13:17	1 - 1. ft	42.5794-004
Comp-02.0 B	S	08-12-11 13:37	2 - 2 ft	425794-005

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CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



Project ID: 30-015-31913 Work Order Number: 425794 Report Date: 24-AUG-11 Date Received: 08/16/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-867727 TPH By SW8015B Mod SW8015B_NM

Batch 867727, 1-Chlorocctane recovered above QC limits Data not confirmed by re-analysis. Samples affected are: 610130-1-BKS,610130-1-BLK,610130-1-BSD,425870-001 SD.

SW8015B_NM

Batch 867727, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike.

Samples affected are: 425794-003, -004, -002, -001, -005. The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-867872 BTEX by EPA 8021B SW8021BM

Batch 867872, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 425689-001 S,425689-001 SD.

SW8021BM

Batch 867872, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 425794-004, -005.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits



CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



 Project ID:
 30-015-31913

 Work Order Number:
 425794

Report Date: 24-AUG-11 Date Received: 08/16/2011

Batch: LBA-868086 BTEX by EPA 8021B SW8021BM

Batch 868086, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 425794-001.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 425794-002,425794-001.



Certificate of Analysis Summary 425794 Yates Petroleum Corporation, Artesia, NM

Project Name: Graham AKB State # 8



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Project Id: 30-015-31913 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Tue Aug-16-11 09:50 am Report Date: 24-AUG-11

TPH By SW8015B Mod	Extracted:	Aug-17-11		Aug-17-11		Aug-17-11		Aug-17-11		Aug-17-11		
Percent Moisture	Child/RE.	3.03	1.00	5.26	1.00	3.02	1.00	3.20	1 00	1.88	1.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
	Analyzed:	Aug-16-11	11.15	Aug-16-11	11-15	Aug-16-11	11.15	Aug-16-11	11-15	Aug-16-11	11.15	
Percent Moisture	Extracted:					~ ~~~				<u> </u>		
Total BTEX		3.29	0.0205	0.204	0.00106	ND	0.00103	ND	0 00103	ND	0 00102	
Total Xylenes		2.58	0 0205	0.171	0.00106	ND	0.00103	ND	0 00103	ND	0.00102	
o-Xylene		0.559	0 0205	0.0602	0.00106	ND	0.00103	ND	0.00103	ND	0.00102	
m_p-Xylenes		2.02	0.0409	0.111	0.00212	ND	0.00207	ND	0.00206	ND	0.00205	
Ethylbenzene		0 642	0.0205	0 0326	0.00106		0.00103	ND	0.00103	ND	0.00102	
Toluene		0.0497	0.0203	ND	0.00100	ND ND	0.00207	ND	0.00103	ND	0.00205	
Benzene	Units/RL:	nig/kg 0.0223	RL 0.0205	mg/kg ND	RL 0.00106	mg/kg ND	RL 0.00103	nıg/kg ND	RL 0.00103	mg/kg ND	RL 0.00102	· ···
	Analyzed:	Aug-23-11		Aug-23-11		Aug-23-11		Aug-20-11		Aug-20-11	1	
BTEX by EPA 8021B	Extracted:	Aug-23-11		Aug-23-11		Aug-23-11		Aug-19-11		Aug-19-11		
DODXL						Aug-12-11		Aug-12-11		Aug-12-11		
	Sampled:	Aug-12-11	1	Aug-12-11							17.77	
	Matrix:	SOL	4	SOIL		SOIL	4	SOIL		SOIL		
Analysis Requested	Depth:	1-1 fi		2-2 ft		3-3 ft		1-1 ft		2-2 ft	00	
	Field Id:	Comp-01		Comp-02		Comp-03.		Comp-01.		Comp-02.		
	Lab Id:	425794-	001	425794-0	302	425794-0	03	425794-0	04	425794-0	05	

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 is limited to the unsount invoiced for this work onlier unless otherwise agreed to no writing

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

Brent Barron II

Odessa Laboratory Manager

Page 6 of 18

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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.

LOD Limit of Detection

LOO Limit of Quantitation

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit

POL Practical Quantitation Limit MOL Method Quantitation Limit

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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Page 7 of 18

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	Company Address:	105 South 4th Street														ı	Proje	ct L		Edd	y Co	unty								
	City/State/Zip:	Artesia, NM 88210													-			PO)#:	1032	2020									
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.AB#	FIFI	D CODE	Beginning Depth	Ending	Date Sampled	Time Sampled	Field Filtered	l otal # of Containers Ica		E P	H ₂ SO,	NaOH	LO ₂ S ₂ O ₁	None Other (Specify)	DW=Drb/ting Water	GW ≈ Groundwater NP≃Nan-Polable 6		TPH.	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkelinity)	SAR / ESP / CEC	Metalis As Ag Ba Cd Cr Pb Hg Violatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260	ß	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Ctandard TAT
2	-}	p-01.0 A	1'	1'	8/12/2011	11:27 AM					1					s s	x	-		4			-	x			x	+	┢	>
12	Com	p-02.0 A	2'	2'	8/12/2011	11:54 AM		1)	<							s	x						T	x			x		Τ	×
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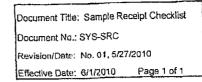
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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Mlami, Odessa, Philadelphia Phcenix, San Antonio, Tampa



Prelogin / Nonconformance Report - Sample Log-In

Client:	Yates Petroleum
Date/Time:	8.16.11 9:50
Lab ID # :	420794 / 425795
Initials:	U2

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Tes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody present?	(Tes)	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		·····
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?	Tes	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No	· ·	-
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(NA)	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	o	Cooler 5 No.	
Ibs (0.) °C ibs °C ibs °C	lbs	0°	lbs	°C

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1. initial and Backup Temperature confirm out of temperature conditions Client understands and would like to proceed with analysis

· · .

Analytical Report 425795

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Graham AKB State #8

30-015-31913

24-AUG-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: AZ00989): Arizona (AZ0758)







24-AUG-11

Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 425795 Graham AKB State # 8 Project Address: Eddy County

Amber Cannon:

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 425795. 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. 425795 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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27.55



Sample Cross Reference 425795 Yates Petroleum Corporation, Artesia, NM Graham AKB State # 8

Granam	AVD	State	#	ō	

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0 A	S	08-12-11 11:27	1 - 1 ft	425795-001
Comp-02.0 A	S	08-12-11 11:54	2 - 2 ft	425795-002
Comp-03.0 A	S	08-12-11 12:33	3 - 3 ft	425795-003
Comp-01.0 B	S	08-12-11 13:17	1 - 1 ft	425795-004
Comp-02.0 B	S	08-12-11 13:37	2 - 2 ft	425795-005

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



 Project ID:
 30-015-31913

 Work Order Number:
 425795

Report Date: 24-AUG-11 Date Received: 08/16/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-867919 Anions by E300 E300Mi

Batch 867919, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 425795-003, -001, -002, -005, -004. The Laboratory Control Sample for Chloride is within laboratory Control Limits

16.1.1.1.1.48
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Certificate of Analysis Summary 425795

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-31913 Contact: Amber Cannon Project Location: Eddy County Project Name: Graham AKB State # 8

Date Received in Lab: Tue Aug-16-11 09:50 am Report Date: 24-AUG-11 Project Manager: Brent Barron II

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	Lab Id:	425795-0	101	425795-0	02	425795-0	03	425795-0	04	425795-0	05		
Amalusia Deguastad	Field Id:	Comp-01.	Comp-01.0 A		DA	Comp-03.0 A		Comp-01.0 B		Comp-02.0 B			
Analysis Requested	Depth:	1-1 ft		2-2 ft	1	3-3 ft		1-1 ft		2-2 ft			
	Matrix:	SOIL	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-12-11	11:27	Aug-12-11 1	1:54	Aug-12-11 1	2:33	Aug-12-11	3:17	Aug-12-11	13:37		
Anions by E300	Extracted:											··· · ·· ···	
	Analyzed:	Aug-20-11	11:00	Aug-20-11 1	1.00	Aug-20-11 1	1:00	Aug-20-11 I	1:00	Aug-20-11	1:00		
·	Units/RL;	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	m g/ kg	RL		
Chloride		4470	86.6	5360	88,7	5560	86 6	942	21.7	218	21.4	·····	-
Percent Moisture	Extracted:		·										
	Analyzed:	Aug-16-11	11:15	Aug-16-11 i	1:15	Aug-16-11 1	1:15	Aug-16-11 J	1-15	Aug-16-11 !	1:15		
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		3.03	1 00	5.26	1.00	3.02	1.00	3.20	1.00	1.88	1.00		

This analytical report, and the entire date 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 Luberstories. XENCO Laborationes assumes no responsibility and makes no warranty to the end use of the data hereby presented Our labbility is limited to the anount avoided for this work order unless otherwise agreed to in writing.

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Brent Barron II

Odessa Laboratory Manager

Page 5 of 11

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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 quantiation 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.

LOD Limit of Detection

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit

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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 Phone
 Fax

 (281) 240-4200
 (281) 240-4280

 (214) 902 0300
 (214) 351-9139

 (210) 509-3334
 (210) 509-3335

 (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
 (305)

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	Project Manager:	Amber Cannon													_		i	Proje	ect N	ame	: <u>G</u>	rat	ian	n Al	KB	St	ate	#8			
	Company Name	Yates Petroleum Corpora	tion																Proj	ect #	: 30	-01	<u>5-3</u>	191:	3						
	Company Address:	105 South 4th Street			<u> </u>													Pro	oject	Loc	: <u>Ed</u>	dy C	oun	ty						<u></u>	
	City/State/Zip:	Artesia, NM 88210																	1	PO #	: 10	3202	20								
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Page 10 of 11



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

Client:	gtes Petroleum
Date/Time:	8.16.11 9:5D
Lab ID # :	420794 / 425795
Initials:	42

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	Tes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Tes	No	N/A	
4. Chain of Custody present?	Pes	No	· · · · ·	
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	No		
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?		No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(NA)	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 Na. Cooler 2 No. Cooler 3 No.	Cooler 4 N	o	Cooler 5 No.	
	°C lbs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:		Date/Time:				
Regarding:							
		·····					
Corrective Action Taken:		•					

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

□ Initial and Backup Temperature confirm out of temperature conditions □ Client understands and would like to proceed with analysis

Analytical Report 427563

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Graham AKB State #8

30-015-31913

21-SEP-11

Collected By: Client



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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)

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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: AZ00989): Arizona (AZ0758)





21-SEP-11

Project Manager: Amber Cannon Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 427563 Graham AKB State # 8 Project Address: Eddy County

Amber Cannon:

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 427563. 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. 427563 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 427563

Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 04.0	S	09-13-11 09:05	4 - 4 ft	427563-001
Grab 05.0	S	09-13-11 09:10	5 - 5 ft	427563-002
Grab 06.0	S	09-13-11 09:15	6 - 6 ft	427563-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Graham AKB State # 8



 Project ID:
 30-015-31913

 Work Order Number:
 427563

Report Date: 21-SEP-11 Date Received: 09/14/2011

Sample receipt non conformances and comments: None_____

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Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 427563

Yates Petroleum Corporation, Artesia, NM Project Name: Graham AKB State # 8



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Project Id: 30-015-31913 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Wed Sep-14-11 09:30 am

Report Date: 21-SEP-11

Toject Eucation. Eddy County								Project Manager:	Brent Barron II	
	Lab Id:	427563-0	100	427563-0	102	427563-0	003			
Anglucia Poor optod	Field Id:	Grab 04	.0	Grab 05	0	Grab 06.	.0			
Analysis Requested	Depth:	4-4 ft		5-5 ft		6-6 fl				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Sep-13-11 (09:05	Sep-13-11 (09:10	Sep-13-11 (09:15			
Anions by E300	Extracted:									
	Analyzed:	Sep-15-11	18:54	Sep-15-11	8:54	Sep-15-11 1	18:54			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		1780	18.1	39.9	4.38	7.70	4.32			
Percent Moisture	Extracted:					········				
	Analyzed:	Sep-14-11	13:15	Sep-14-11	3;15	Sep-14-11 1	3:15			
· .	Units/RL:	%	RL	%	RL.	%	RL			
Percent Moisture		7.00	1.00	4.03	1 00	2.75	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 (his analytical report represent the best jougnent of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the cad use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron II

Odessa Laboratory Manager

Page 5 of 11

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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.

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

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2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Mtami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
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6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E Atlanta Avc, Phoenix, AZ 85040	(602) 437-0330	

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Com	pany Address:	105 South 4th Stre	eet															P	roje	ct Lo	c: <u>E</u> c	idy C	Coun	ty							_
City/	State/Zip:	Artesia, NM 8821	10		_															PO	#: 10	3202	20				_				
Tele	phone No:	575-748-4111					Fax No:		575-	748-	458	5					Re	port	For	mat:	×]sta	anda	rd		י 🗋	TRRP	,		(PDE	ŝ
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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

Client:	Votes Petroleum
Date/Time:	9.14.11 9:30
Lab ID # :	427563
Initials:	Űź.

Sample Receipt Checklist

						······································	
1. Samples on ice?			Blue	Water	No	·····	
2. Shipping container in	good condition?		Yes	No	None		
3. Custody seals intact of	on shipping container (c		Tes	No	N/A		
4. Chain of Custody pre-	sent?			Res	No		
5. Sample instructions o	omplete on chain of cus	tody?		Yes	No		
6. Any missing / extra sa	amples?			Yes	(No)		
7. Chain of custody sign	ed when relinquished /	received?		Yes	No		
8. Chain of custody agree	es with sample label(s)	?		(Jab	No		
9. Container labels legit	le and intact?			(Yes)	No		
10. Sample matrix / prop	erties agree with chain	of custody?		Yes	No .		·····
11. Samples in proper c	ontainer / bottle?		Yes	No			
12. Samples property pr	eserved?		Yes	No	N/A		
13. Sample container in	act?		Yes	No			
14. Sufficient sample an	nount for indicated tests		Yes	No			
15. All samples received	i within sufficient hold ti		Yes	No			
16. Subcontract of same	ple(s)?		Yes	No	(NIÀ)		
17. VOC sample have ze	ero head space?		Yes	No	(N/A)		
18. Cooler 1 No.	Cooler 2 No.	·····	Cooler 4 No	5.	Cooler 5 No.		
lbs 21.5 %	lbs °C	ibs	°C	lbs	°0	: Ibs	

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		·
Corrective Action Tak	en:	
Check all that apply:	□Cooling process has begun shortly after sar condition acceptable by NELAC 5.5.8. □Initial and Backup Temperature confirm out	3.1.a.1.
•••	Client understands and would like to proce	