Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, December 06, 2011 1:14 PM
To: 'Amber Cannon'
Cc: Bob Asher
Subject: RE: Martha AIK Federal #1

Amber,

I have a couple of questions on this submittal.

- Comp 1, 2 & 3 were comp samples of both areas (North & South). Has this material been removed?
- I would have a concern with Grab N6 in that it more than doubled from the upper sample point (Grab N5). While I would agree that 1710 mg/kg is not an exceptionally high number, I think it should be investigated a little deeper to make sure the trend up, doesn't continue.

The second bullet point was not actually a question, but let me know what you think.

Thanks,

Mike 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: Monday, December 05, 2011 10:59 AM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: FW: Martha AIK Federal #1

Mike,

Please find attached a site diagram and an analytical results table (along with analytical results from the laboratory) for the Martha AIK Federal #1. Based on the most recent analytical results (Report 426916) Yates Petroleum would like to request closure and permission to backfill as we found chloride decrease at 4', 5' and 6'. Please let me know if these results are acceptable and I will get a Final C-141 submitted to your office.

Thank you for your time,

Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799

Email: acannon@yatespetroleum.com

From: Amber Cannon
Sent: Tuesday, September 13, 2011 2:10 PM
To: 'Bratcher, Mike, EMNRD'
Cc: Jerry Fanning; Bob Asher; Dade, Randy, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD
Subject: RE: Martha AIK Federal #1

Mr. Bratcher,

Per our phone conversation on September 12, 2011, Yates Petroleum Corporation is going to return to the Martha AIK Federal #1 for further chloride delineation. We appreciate you cooperation and guidance in this matter, as we all understand chloride delineation is an ongoing issue with no official guidance to follow for chloride limits. Yates Petroleum will take samples at 4', 5', and 6' to show a decrease in the elevated chloride levels, as you requested. Yates Petroleum will notify you 24 hours prior of sampling event for delineation of chlorides so that you may be present. Yates Petroleum will send these samples to an NMOCD approved laboratory for analysis and will then submit the results to NMOCD.

A work plan will also be submitted to your office for this release.

Thank you for your time,

Amber Cannon
Yates Petroleum Corporation
575-748-4111 (Office)
575-513-8799 (Cell)

-----Original Message-----
From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Monday, September 12, 2011 8:20 AM
To: Amber Cannon
Cc: Jerry Fanning; Bob Asher; Dade, Randy, EMNRD; Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Bailey, Jami, EMNRD
Subject: RE: Martha AIK Federal #1

Amber,

Chloride levels are too elevated and the extent of contamination has not been defined. OCD will not approve closure for this site at this time.

Mike 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: Monday, September 12, 2011 7:58 AM
To: Bratcher, Mike, EMNRD
Cc: Jerry Fanning; Bob Asher
Subject: Martha AIK Federal #1

Mike,

The following analytical results are for your review. The impacted soils were excavated and hauled to an NMOCD approved facility. If these results are acceptable, Yates would like to then request closure.

Please call me if you have any questions.

Martha AIK Federal #1

Analytical Report 425342 & 425341	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	T
Comp-01.0	8/24/2011	Comp/Auger	1'	ND	ND	87.0	
Comp-02.0	8/24/2011	Comp/Auger	2'	ND	ND	46.2	
Comp-03.0	8/24/2011	Comp/Auger	3'	ND	ND	19.4	

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', per NMOSE).

All results are ppm. Chlorides results are for documentation.

Thank you.

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

Bratcher, Mike, EMNRD

From: Amber Cannon [ACannon@yatespetroleum.com]
Sent: Monday, December 05, 2011 10:59 AM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: FW: Martha AIK Federal #1
Attachments: MarthaAIKFederal1_Diagram&SampleTable.pdf; MarthaAIKFederal1_426558-426559.pdf; MarthaAIKFederal1_426916.pdf

Mike,

Please find attached a site diagram and an analytical results table (along with analytical results from the laboratory) for the Martha AIK Federal #1. Based on the most recent analytical results (Report 426916) Yates Petroleum would like to request closure and permission to backfill as we found chloride decrease at 4', 5' and 6'. Please let me know if these results are acceptable and I will get a Final C-141 submitted to your office.

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Yates Petroleum Corporation
575-748-4111 (Office)
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Subject: RE: Martha AIK Federal #1

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NMOCD District 2
811 S. First Street
Artesia, NM 88210
575-748-1283 Ext. 108
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Please call me if you have any questions.

Martha AIK Federal #1

Analytical Report-425342 & 425341		Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TC
Comp-01.0		8/24/2011	Comp/Auger	1'	ND	ND	87.0	8
Comp-02.0		8/24/2011	Comp/Auger	2'	ND	ND	46.2	4
Comp-03.0		8/24/2011	Comp/Auger	3'	ND	ND	19.4	1

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', per NMOSE).

All results are ppm. Chlorides results are for documentation.

Thank you.

Amber Cannon
Yates Petroleum Corporation
Office: (575) 748-4111

Cell: (575) 513-8799
acannon@yatespetroleum.com

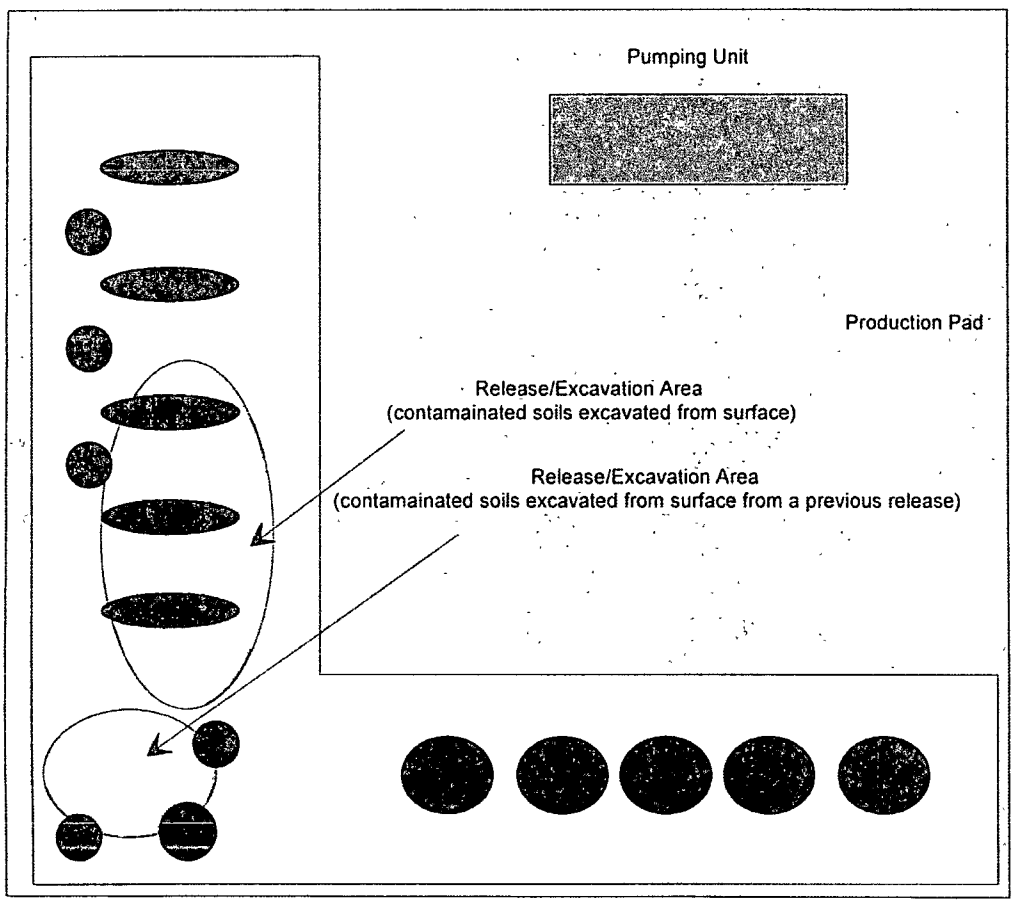
Martha AIK Federal #1

Analytical Report 425342 & 425341	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01.0	Release Area	8/24/2011	Comp/Auger	1'	ND	ND	87	87	2,590
Comp-02.0	Release Area	8/24/2011	Comp/Auger	2'	ND	ND	46.2	46.2	3,460
Comp-03.0	Release Area	8/24/2011	Comp/Auger	3'	ND	ND	19.4	19.4	2,920
Analytical Report 426916	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab N4	Release Area	11/22/2011	Grab/Backhoe	4'					593
Grab N5	Release Area	11/22/2011	Grab/Backhoe	5'					780
Grab N6	Release Area	11/22/2011	Grab/Backhoe	6'					1,710
Grab S4	Release Area	11/22/2011	Grab/Backhoe	4'					200
Grab S5	Release Area	11/22/2011	Grab/Backhoe	5'					164
Grab S6	Release Area	11/22/2011	Grab/Backhoe	6'					77

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 150', Section 11-22S-31E, per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 30 B/PW, 5 B/O; Recovered: 0 B/PW, 5 B/O. Release Date: 7/8/2011



NOTE: Comp 01.0, Comp 02.0, and Comp 03.0 consisted of composite samples from both yellow areas above. Grab N4, Grab N5, and Grab N6 consisted of Grab Samples taken from the northern area. Grab S4, Grab S5, and Grab S6 consisted of Grab Samples taken from the southern area.

YATES PETROLEUM CORPORATION	Martha AIK Federal #1 30-015-26549 Section 11, T22S-R31E Eddy County, NM	SAMPLE DIAGRAM(Not to Scale) Xenco Laboratories# See Attached Sample Table and Sample Results Prepared by Amber Cannon Environmental Regulatory Agent

Analytical Report 426558

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Martha AIK Federal #1

30-015-26549

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)

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

Reference: XENCO Report No: **426558**
Martha AIK Federal #1
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 426558. 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. 426558 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

Sample Cross Reference 426558

Yates Petroleum Corporation, Artesia, NM

Martha AIK Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	08-24-11 10:56	1 - 1 ft	426558-001
Comp-02.0	S	08-24-11 11:38	2 - 2 ft	426558-002
Comp-03.0	S	08-24-11 12:20	3 - 3 ft	426558-003

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Martha AIK Federal #1

Project ID:	*30-015-26549*	*Report Date:*	*08-SEP-11*
Work Order Number:	*426558*	*Date Received:*	*08/26/2011*

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-868829 BTEX by EPA 8021B
SW8021BM

Batch 868829, o-Xylene recovered below QC limits in the Matrix Spike.
Samples affected are: 426558-003, -001, -002.
The Laboratory Control Sample for o-Xylene is within laboratory Control Limits

Batch: LBA-869315 TPH By SW8015B Mod
SW8015B_NM

Batch 869315, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 426558-003, -001, -002.
The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons is within laboratory Control Limits

Certificate of Analysis Summary 426558

Yates Petroleum Corporation, Artesia, NM

Project Name: Martha AIK Federal #1

Project Id: 30-015-26549
Contact: Amber Cannon
Project Location: Eddy County

Date Received in Lab: Fri Aug-26-11 09:30 am
Report Date: 08-SEP-11
Project Manager: Brent Barron II

Analysis Requested											
	Lab Id:	426558-001		426558-002		426558-003					
	Field Id:	Comp-01.0		Comp-02.0		Comp-03.0					
	Depth:	1-1 ft		2-2 ft		3-3 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Aug-24-11 10:56		Aug-24-11 11.38		Aug-24-11 12:20					
BTEX by EPA 8021B	*Extracted:*	Aug-29-11 14:00		Aug-29-11 14:00		Aug-29-11 14:00					
	Analyzed:	Aug-30-11 00:40		Aug-30-11 01:03		Aug-30-11 01:26					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.00103	ND	0.00103	ND	0.00103				
Toluene		ND	0.00205	ND	0.00205	ND	0.00205				
Ethylbenzene		ND	0.00103	ND	0.00103	ND	0.00103				
m_p-Xylenes		ND	0.00205	ND	0 00205	ND	0.00205				
o-Xylene		ND	0.00103	ND	0.00103	ND	0.00103				
Total Xylenes		ND	0.00103	ND	0.00103	ND	0.00103				
Total BTEX		ND	0.00103	ND	0.00103	ND	0.00103				
Percent Moisture	*Extracted:*										
	Analyzed:	Aug-26-11 12:25		Aug-26-11 12:25		Aug-26-11 12:30					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		2.75	1.00	2.97	1.00	2.99	1.00				
TPH By SW8015B Mod	*Extracted:*	Aug-26-11 12:25		Aug-26-11 12:25		Aug-26-11 12:25					
	Analyzed:	Sep-04-11 00:57		Sep-04-11 01:27		Sep-04-11 01:59					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	15.4	ND	15.4	ND	15.4				
C10-C28 Diesel Range Hydrocarbons		87.0	15.4	46.2	15.4	19.4	15.4				
Total TPH		87.0	15.4	46.2	15.4	19.4	15.4				

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.

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.

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Amber Cannon

Project Name: **Martha AIK Federal #1**

Company Name: Yates Petroleum Corporation

Project #: 30-015-26549

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111 Fax No: 575-748-4585 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Amber Cannon e-mail: acannon@yatespetroleum.com

(lab use only) CI

ORDER #: 426558/426559

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	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	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	Comp-01.0	1'	1'	8/24/2011	10:56 AM		1	X									S		X								X			X		X
002	Comp-02.0	2'	2'	8/24/2011	11:38 AM		1	X									S		X								X			X		X
003	Comp-03.0	3'	3'	8/24/2011	12:20 PM		1	X									S		X								X			X		X
	PLEASE PUT CHLORIDES ON SEPARATE REPORT																															

Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Amber Cannon	08/25/11	3:30 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Lisa Murdock	Date 8-26-11	Time 9:30

Laboratory Comments:

Sample Containers intact?	Y	N NA
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N

by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4 C 2.1 °C

XENCO Laboratories	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: Yates

Date/Time: 8-26-11 9:30

Lab ID #: 426558/426559-C1

Initials: KH

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	(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?	(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)	N/A	
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	2.1 °C	lbs	°C	lbs	°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 426559

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Martha AIK Federal #1

30-015-26549

07-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)

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)

07-SEP-11

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

Reference: XENCO Report No: **426559**
Martha AIK Federal #1
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 426559. 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. 426559 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

Sample Cross Reference 426559

Yates Petroleum Corporation, Artesia, NM

Martha AIK Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0	S	08-24-11 10:56	1 - 1 ft	426559-001
Comp-02.0	S	08-24-11 11:38	2 - 2 ft	426559-002
Comp-03.0	S	08-24-11 12:20	3 - 3 ft	426559-003

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Martha AIK Federal #1

Project ID:	*30-015-26549*	*Report Date:*	*07-SEP-11*
Work Order Number:	*426559*	*Date Received:*	*08/26/2011*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 426559

Yates Petroleum Corporation, Artesia, NM

Project Name: Martha AIK Federal #1

Project Id: 30-015-26549
Contact: Amber Cannon
Project Location: Eddy County

Date Received in Lab: Fri Aug-26-11 09:30 am
Report Date: 07-SEP-11
Project Manager: Brent Barron II

Analysis Requested											
	Lab Id:	426559-001		426559-002		426559-003					
	Field Id:	Comp-01.0		Comp-02.0		Comp-03.0					
	Depth:	1-1 ft		2-2 ft		3-3 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Aug-24-11 10:56		Aug-24-11 11:38		Aug-24-11 12:20					
Anions by E300	*Extracted:*										
	Analyzed:	Aug-27-11 17:31		Aug-27-11 17:31		Aug-27-11 17:31					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		2590	43.2	3460	43.3	2920	43.3				
Percent Moisture	*Extracted:*										
	Analyzed:	Aug-26-11 12:30		Aug-26-11 12:30		Aug-26-11 12:30					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		2.75	1.00	2.97	1.00	2.99	1.00				

Brent Barron II
Odessa Laboratory Manager

XENCO Laboratories

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoverics 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.

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.

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Amber Cannon
Project Name: Martha AIK Federal #1
Company Name: Yates Petroleum Corporation
Project #: 30-015-26549
Company Address: 105 South 4th Street
Project Loc: Eddy County
City/State/Zip: Artesia, NM 88210
PO #: 1032020
Telephone No: 575-748-4111 Fax No: 575-748-4585 Report Format: [X] Standard [ ] TRRP [ ] NPDES
Sampler Signature: Amber Cannon e-mail: acannon@yatespetroleum.com

(lab use only) ORDER #: 426558/426559 CI

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non Potable Specify Other	Analyze For: TCLP: TOTAL: 8015B	8015M	TPH: 418.1	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	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	Comp-01.0	1'	1'	8/24/2011	10:56 AM		1	X								S			X										X			X				X
002	Comp-02.0	2'	2'	8/24/2011	11:38 AM		1	X								S			X										X			X				X
003	Comp-03.0	3'	3'	8/24/2011	12:20 PM		1	X								S			X										X			X				X
	PLEASE PUT CHLORIDES ON SEPARATE REPORT																																		

Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Amber Cannon	08/25/11	3:30 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Lisa Mundook	8-26-11	9:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?		N/A
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.7 9/C 2.1 °C

Final 1.000

XENCO Laboratories	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: Yates

Date/Time: 8-26-11 9:30

Lab ID #: 426558/426559-C1

Initials: KM

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	(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?	(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)	N/A	
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 2.1 °C	lbs °C	lbs °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 432251

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Martha AIK Federal # 1

30-015-26549

01-DEC-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)

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)

01-DEC-11

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

Reference: XENCO Report No: **432251**
Martha AIK Federal # 1
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 432251. 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. 432251 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

Sample Cross Reference 432251

Yates Petroleum Corporation, Artesia, NM

Martha AIK Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab N4	S	11-22-11 09:30	4 - 4 ft	432251-001
Grab N5	S	11-22-11 09:40	5 - 5 ft	432251-002
Grab N6	S	11-22-11 09:50	6 - 6 ft	432251-003
Grab S4	S	11-22-11 10:00	4 - 4 ft	432251-004
Grab S5	S	11-22-11 10:10	5 - 5 ft	432251-005
Grab S6	S	11-22-11 10:20	6 - 6 ft	432251-006

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Martha AIK Federal # 1

Project ID:	*30-015-26549*	*Report Date:*	*01-DEC-11*
Work Order Number:	*432251*	*Date Received:*	*11/29/2011*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 432251

Yates Petroleum Corporation, Artesia, NM

Project Name: Martha AIK Federal # 1

Project Id: 30-015-26549
Contact: Amber Cannon
Project Location: Eddy County

Date Received in Lab: Tue Nov-29-11 12:15 pm
Report Date: 01-DEC-11
Project Manager: Brent Barron II

Analysis Requested													
	Lab Id:	432251-001		432251-002		432251-003		432251-004		432251-005		432251-006	
	Field Id:	Grab N4		Grab N5		Grab N6		Grab S4		Grab S5		Grab S6	
	Depth:	4-4 ft		5-5 ft		6-6 ft		4-4 ft		5-5 ft		6-6 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-22-11 09.30		Nov-22-11 09:40		Nov-22-11 09:50		Nov-22-11 10:00		Nov-22-11 10:10		Nov-22-11 10:20	
Anions by E300	*Extracted:*												
	Analyzed:	Nov-29-11 17.45		Nov-29-11 17:45		Nov-29-11 17:45		Nov-29-11 17:45		Nov-29-11 17.45		Nov-29-11 17:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		593	8.63	780	8.61	1710	21.6	200	4.31	164	4.31	77.4	4.31
Percent Moisture	*Extracted:*												
	Analyzed:	Nov-29-11 14:40		Nov-29-11 14:40		Nov-29-11 14:40		Nov-29-11 14:55		Nov-29-11 14:55		Nov-29-11 14:55	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		2.62	1.00	2.45	1.00	2.64	1 00	2.64	1.00	2 65	1.00	2.57	1.00

Brent Barron II
Odessa Laboratory Manager

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.

* Surrogate recovered outside laboratory control limit.

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. ^ NELAC or State program does not offer Accreditation at this time.

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Amber Cannon
Project Name: Martha AIK Federal #1

Company Name: Yates Petroleum Corporation
Project #: 30-015-26549

Company Address: 105 South 4th Street
Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210
PO #: 1032020

Telephone No: 575-748-4111
Fax No: 575-748-4585
Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Amber Cannon
e-mail: acannon@yatespetroleum.com

(lab use only)
ORDER #: 432251

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: Drink.Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH 418.1	8015M	8015B	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	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Grab N4	4'	4'	11/22/2011	9:30 AM		1										S																X		X
02	Grab N5	5'	5'	11/22/2011	9:40 AM		1										S																X		X
03	Grab N6	6'	6'	11/22/2011	9:50 AM		1										S																X		X
04	Grab S4	4'	4'	11/22/2011	10:00 AM		1										S																X		X
05	Grab S5	5'	5'	11/22/2011	10:10 AM		1										S																X		X
06	Grab S6	6'	6'	11/22/2011	10:20 AM		1										S																X		X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Amber Cannon	11/28/11	3:30P			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: Andrea Elam	Date 11.29.11	Time 12:15

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N NA
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
4029405
Temperature Upon Receipt: 14.5 °C

Final 1.000

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum

Date/Time: 11.29.11 12.15

Lab ID #: 432257

Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	(No)	
2. Shipping container in good condition?	(Yes)	No	None/AE	
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	(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?	(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	(N/A)	
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 14.5 °C	lbs °C	lbs °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