Administrative/Environmental Order



# **AE Order Number Banner**

**Report Description** 

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKMW1035742839

2RP - 534

YATES PETROLEUM CORPORATION

12/23/2010

MARTIN YATES, 111 1912-1985

FRANK W. YATES

5.P. YATES



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471 JOHN A. YATES CHAIRMAN OF THE BOARD

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JAMES S. BROWN CHIEF OPERATING OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

January 20, 2011

Mr. Mike Bratcher NMOCD District II 1301 West Grand Artesia, NM 88210

Re: Laney AGJ Federal Com. #1 2RP-534 30-015-26091 Section 11, T18S-R24E Eddy County, New Mexico JAN 2 0 2011 NMOCD ARTESIA

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on May 19, 2010 (128 B/C & 5 B/PW was released with 0 B/C & 0 B/PW recovered). A C-141 Initial Report was submitted to your office on 5/25/2010. Initial samples were taken on 26/10/2010 and were above limits (TPH <5000 ppm & BTEX <50 PPM, chlorides for documentation) for the site ranking of 0. A work plan was mailed to your office on August 2, 2010 and because of contractor availability excavation work began September 17, 2010. The impacted soils were excavated to a depth of ten (10) feet and taken to an NMOCD approved facility. Vertical and horizontal delineation samples were taken on 9/29/2010 and sent to an OCD approved laboratory and were still above limits (TPH <5000 ppm & BTEX <50 PPM). Impacted soils were excavated and hauled to an NMOCD approved facility. Additional delineation samples were taken on 11/8/2010 from the north sidewall and the tank bottom and sent to an NMOCD approved laboratory and the tank bottom results were still above limits (TPH <5000 ppm & BTEX <50 PPM), impacted soils were excavated and hauled to an NMOCD approve facility. Samples were taken on 12/7/2010 and sent to an NMOCD approved laboratory, the tank bottom results were below limits but the east side wall results were still above limits (TPH <5000 ppm & BTEX <50 PPM), impacted soils from the east side wall were excavated and hauled to an NMOCD approve facility. Samples were taken on 12/28/2010 and sent to an NMOCD approved laboratory and the east side wall results were below limits (TPH <5000 ppm & BTEX <50 PPM). The NMOCD was notified of sampling at the location on 1/11/2011 and sent to an NMOCD approved laboratory with all results being below limits (TPH <5000 ppm & BTEX <50 PPM). Enclosed are the analytical reports and sample diagram.

There is currently an open excavation (approximately 30' x 30' x 18' deep), it is fenced but still poses a threat to livestock, human health, Yates Petroleum Corporation requests closure based on the impacted soils excavated/removed, analytical results and current open excavation risks.

If you have any questions, please call me at 575-748-4217.

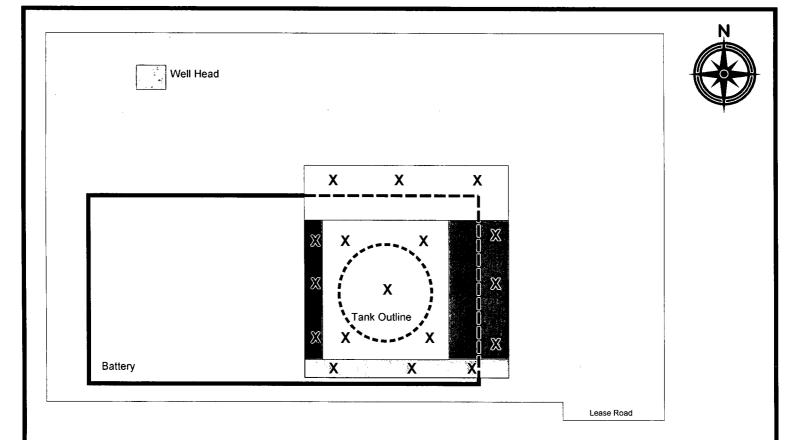
Thank you.

YATES PETROLEUM CORPORATION

UN

Robert Asher Environmental Regulatory Agent

/rca Enclosure(s)



Analytical Report- 403367	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-18.0 T/B	Bottom	1/11/2011	Comp/Shovel	1' (18' BSL)	12.08	459	1320	1780
Comp-16.0 NSW	North Side Wall	1/11/2011	Comp/Shovel	16' BSL	0.0413	ND	ND	ND
Comp-16.0 ESW	East Side Wall	1/11/2011	Comp/Shovel	16' BSL	ND	ND	ND	ND
Comp <u>=16.0/SSV</u>	South Side Wall	1/11/2011	Comp/Shovel	16' BSL	0.0021	ND	ND	ND
Comp-16.0 WSW	West Side Wall	1/11/2011	Comp/Shovel	16' BSL	0.0011	ND	ND	ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

All results are ppm. BSL - Below Surface Level.

Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



### Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Report #: 403367 Report Date: 1/14/2011

Prepared by Robert Asher Environmental Regulatory Agent

# Analytical Report 403367

for

### **Yates Petroleum Corporation**

**Project Manager: Robert Asher** 

Laney AGJ Federal Com. #1

30-015-26091

14-JAN-11



**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 (AZ0738), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

Final 1.000



nela

14-JAN-11

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

#### Reference: XENCO Report No: 403367 Laney AGJ Federal Com. #1 Project Address: Eddy County

#### **Robert Asher:**

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 403367. 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. 403367 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 403367



### Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal Com. #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp- 18.0 TB	S	Jan-11-11 10:00	18 - 18 ft	403367-001
Comp- 16.0 NSW	S	Jan-11-11 10:05	16 - 16 ft	403367-002
Comp- 16.0 ESW	S	Jan-11-11 10:10	16 - 16 ft	403367-003
Comp- 16.0 SSW	S	Jan-11-11 10:15	16 - 16 ft	403367-004
Comp- 16.0 WSW	S	Jan-11-11 10:20	16 - 16 ft	403367-005



### CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal Com. #1



 Project ID:
 30-015-26091

 Work Order Number:
 403367

Report Date: 14-JAN-11 Date Received: 01/12/2011

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

#### None

#### **Analytical Non Conformances and Comments:**

Batch: LBA-839679 BTEX by EPA 8021B SW8021BM

Batch 839679, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 403367-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 403367-001.

#### SW8021BM

Batch 839679, Benzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 403367-001, -003, -005, -004, -002.

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



## Certificate of Analysis Summary 403367

Yates Petroleum Corporation, Artesia, NM Project Name: Laney AGJ Federal Com. #1



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Wed Jan-12-11 11:30 am Report Date: 14-JAN-11

					Project Manager:	Brent Barron, II	
	Lab Id:	403367-001	403367-002	403367-003	403367-004	403367-005	
Analysis Requested	Field Id:	Comp-18.0 TB	Comp- 16.0 NSW	Comp- 16.0 ESW	Comp- 16.0 SSW	Comp- 16.0 WSW	
Anulysis Requested	Depth:	18-18 ft	· 16-16 ft	16-16 ft	16-16 ft	16-16 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jan-11-11 10:00	Jan-11-11 10:05	Jan-11-11 10:10	Jan-11-11 10:15	Jan-11-11 10:20	
BTEX by EPA 8021B	Extracted:	Jan-13-11 15:45	Jan-13-11 15:45	Jan-13-11 15:45	Jan-13-11 15:45	Jan-13-11 15:45	
	Analyzed:	Jan-14-11 08:50	Jan-14-11 00:30	Jan-14-11 00:53	Jan-14-11 01:16	Jan-14-11 01:38	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		ND 0.0205	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	•
Toluene		1.019 0.0411	0,0063 0.0021	ND 0.0021	ND 0.0020	ND 0.0021	
Ethylbenzene		1.367 0.0205	0.0041 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	
m,p-Xylenes		8.813 0.0411	0.0296 0.0021	ND 0.0021	0.0021 0.0020	ND 0.0021	
o-Xylene		0.8801 0.0205	0.0013 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	
Xylenes, Total		9.693 0.0205	0.0309 0.0010	ND 0.0010	. 0.0021 0.0010	ND 0.0011	
Total BTEX		12.08 0.0205	0.0413 0.0010	ND 0.0010	0.0021 0.0010	0.0011 0.0011	
Percent Moisture	Extracted:						
	Analyzed:	Jan-12-11 17:00	Jan-12-11 17:00	Jan-12-11 17:00	Jan-12-11 17:00	Jan-12-11 17:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		2.84 1.00	3.84 1.00	4.89 1.00	1.33 1.00	5.40 1.00	
TPH By SW8015B Mod	Extracted:	Jan-13-11 09:30	Jan-13-11 09:30	Jan-13-11 09:30	Jan-13-11 09:30	Jan-13-11 09:30	
	Analyzed:	Jan-13-11 13:53	Jan-13-11 16:20	Jan-13-11 14:53	Jan-13-11 15:23	Jan-13-11 15:51	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		459 15.4	ND 15.6	ND 15.7	ND 15.2	ND 15.8	
C10-C28 Diesel Range Hydrocarbons		1320 15.4	ND 15.6	ND 15.7	ND 15.2	ND 15.8	
Total TPH		1780 15.4	ND 15.6	ND 15.7	ND 15.2	ND 15.8	

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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 liability is 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

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Page 5 of 15



### **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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

PQL Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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Final 1.000

# 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: Robert Asher		·											Pr	oject	Nam	1e: L	an	ey A	٩GJ	Fe	de	<u>ral</u>	Cor	n. #	1	
	Company Name Yates Petroleum Corpo	ration	:			;								_	Pro	oject	#: <u>3</u>	0-01	5-26	091							
	Company Address: 105 South 4th Street						` : :							•	Proje	ct Lo	c: E	ddy (	Coun	ty							
	City/State/Zip: Artesia, NM 88210				· · · · · ·									<b>-</b>		РÔ	#· 1	0563	2								
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ORDEF	*#: 403367						-	P	reser	vation	& # of	Contai	ners	Matrix	8015B		Τ	Τ	g Se			8260				4.8	$\vdash$
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fittered	Total #. ul Containers	lce	HNO <sub>3</sub>	HCI H,SOA	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other ( Specify)	DW≂Drinking Water SL=Sludge GW = Groundwater S≍Soi/Solid NP=Non-Potable Specify Other	418.1 8015M	Í	Cations (Ca. Mg. Na. K)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	X 8021B/5030 or 8TEX	KCI N.O.R.M	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
	Comp-18.0 TB	18'	18'	1/11/2011	10:00 AM		1	x						S	X						$\square$	x		-		1	X
	Comp-16.0 NSW	16'	16'	1/11/2011	10:05 AM	<u> </u>	1	x	$- \downarrow$				_	S	X	_	$\downarrow$	$\perp$				<u>x  </u>	+		$\vdash$		X
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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

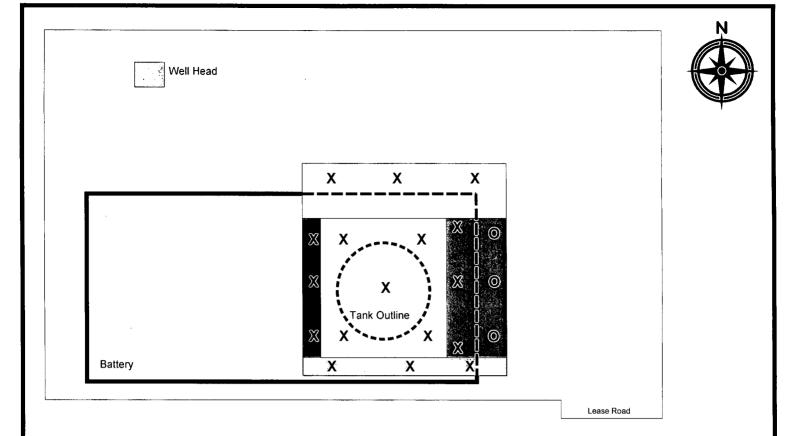
client: lates Petroleum	Corporation
Date/Time: 1-12-10 11:30	· · · · · · · · · · · · · · · · · · ·
Lab ID #: 403367	
Initials: LM	

#### Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Fes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Tes	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		1.5
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?	(es)	No	10-12	
11. Samples in proper container / bottle?	Tes	No		a star
12. Samples properly preserved?	Yest	No	N/A	
13. Sample container intact?	Yes	No		n de la composición d
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	(NAS)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No	•
	lbs	°c	lbs	°C

**Nonconformance Documentation** 

Client understands and would like to proceed with analysis



Analytical Report- 399757	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-18.0 T/B	Bottom	12/7/2010	Comp/Shovel	1' (18' BSL)	23.401	1690	2350	4040
Comp-16.0 NSW	North Side Wall	12/7/2010	Comp/Shovel	16' BSL	0.176	ND	ND	ND
Comp-16.0 ESW	East Side Wall	12/7/2010	Comp/Shovel	16' BSL	27.560	3040	4560	7600
Comp=16.01SSW	South Side Wall	12/7/2010	Comp/Shovel	16' BSL	ND	ND	ND	ND
Comp-16.0 WSW	West Side Wall	12/7/2010	Comp/Shovel	16' BSL	ND	ND	ND	ND
Analytical Report- 402132	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-10.0 ESW	East Side Wall	12/28/2010	Comp/Shovel	16' BSL	ND	ND	ND	ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office). All results are ppm. BSL - Below Surface Level. X - Sample Points (12/7/2010) O - Sample Points (12/28/2010) Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale) Xenco Report #: 399757 Report Date: 12/13/2010

> Xenco Report #: 402132 Report Date: 1/4/2011

Prepared by Robert Asher Environmental Regulatory Agent

# **Analytical Report 402132**

### for Yates Petroleum Corporation

**Project Manager: Robert Asher** 

Laney AGJ Federal #1

30-015-26091

04-JAN-11



**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 (AZ0738), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

Page 1 of 14



04-JAN-11

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

### Reference: XENCO Report No: 402132 Laney AGJ Federal # 1 Project Address: Eddy County

#### **Robert Asher**:

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 402132. 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. 402132 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 402132



Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-16.0 ESW	S.	Dec-28-10 10:54	16 - 16 ft	402132-001

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Page 3 of 14

Final 1.000



Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal # 1



 Project ID:
 30-015-26091

 Work Order Number:
 402132

Report Date: 04-JAN-11 Date Received: 12/30/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

#### None

Analytical Non Conformances and Comments:

Batch: LBA-838209 BTEX by EPA 8021 SW8021BM

Batch 838209, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 402132-001.

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

Batch: LBA-838307 TPH by SW 8015B SW8015B\_NM

Batch 838307, C10-C28 Diesel Range Hydrocarbons, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 402132-001.

The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons , C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

SW8015B\_NM

Batch 838307, o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 402132-001 S.

o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 402132-001 SD,402132-001.

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### Certificate of Analysis Summary 402132 Yates Petroleum Corporation, Artesia, NM



Project Name: Laney AGJ Federal # 1

Project Id: 30-015-26091 Contact: Robert Asher

Project Location: Eddy County

 Date Received in Lab:
 Thu Dec-30-10 09:30 am

 Report Date:
 04-JAN-11

 Project Manager:
 Brent Barron, II

	Lab Id:	402132-001				
Analysis Requested	Field Id:	Comp-16.0 ESW	* * *			
Analysis Kequesieu	Depth:	16-16 ft				
	Matrix:	SOIL				
	Sampled:	Dec-28-10 10:54				
BTEX by EPA 8021	Extracted:	Dec-30-10 11:59				
	Analyzed:	Dec-30-10 13:54				
	Units/RL:	mg/kg RL				
Benzene		ND 0.0010	a di se			
Toluene		ND 0.0020				
Ethylbenzene		ND 0.0010	•			
m,p-Xylenes		ND 0.0020	and the second			
o-Xylene		ND 0.0010			· · · · ·	
Xylenes, Total		ND 0.0010			·	
Total BTEX		ND 0.0010				
Percent Moisture	Extracted:					
	Analyzed:	Dec-30-10 11:00				
	Units/RL:	% RL				
Percent Moisture		2.56 1.00				 •.
TPH by SW 8015B	Extracted:	Jan-03-11 12:00				
	Analyzed:	Jan-03-11 19:12		· · · · ·		
	Units/RL:	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons	· .	ND 15.3				
C10-C28 Diesel Range Hydrocarbons	·	ND 15.3	states and the			
Total TPH		ND 15.3				

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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 liability is 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

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Page 5 of 14



### **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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

PQL Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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Final 1.000

### **XENCO-Environmental Lab of Texas**

Yates Petroleum Corporation

Artesia, NM 88210

Robert Asher

Company Address: 105 South 4th Street

Project Manager:

Company Name

City/State/Zip:

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Project Name: Laney AGJ Federal #1 Project #: 30-015-26091 Project Loc: Eddy County

PO #: 105632

Phone: 432-563-1800

Fax: 432-563-1713

	Telephone No: 575-748-4217		-,. <u>.</u>			Fax No:	:	575		18-46							Repo	rț F	orma	at:	X	Sta	anda	rd			TRI	RP	[	N	PDE	S
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ORDE	R#: 402132							•	_	Prese	rvatio	on & #	f of C	ontair	hers	Т	Matrix			Υ	TO	TAL:			H	H					8. 72 h	
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AB # (lab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	Fotal #. of Containers	lce .	•ONH	нCi	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other ( Specify)	(finodo) iorac	UV×∪ninking Water GW = Groundwater NP=Non-DoteMa		TX 1005	Cations (Ca, Mg.	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	FAT bachacto
01	Comp-16.0 ESW		16'	16'	12/28/2010	10:54 AM	Í.	1			1		+			Ť	S	X		Ē	Ē					x		$\neg$	╈	╈	Ť	ſ
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XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas

Miami, Odessa, Philadelphia Hon

San Antonio, Tampa Phoenix

ocument Title: Sample Receipt Checklist	
Occurrent 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:	ates	Petrol	Cum	
Date/Time:	12.	30.10	9:30	
Lab ID # :		4021	32	
Initials:		At	/	<u> </u>

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	1
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	NA	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No		and and a
8. Chain of custody agrees with sample label(s)?	Yes	No		and the second
9. Container labels legible and intact?	Yes	No		Carl Strandard St.
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		the consideration of the second
11. Samples in proper container / bottle?	(Yes)	No		ing tracks and the
12. Samples property preserved?	Yes)	No	N/A	St. Martine Print Ch
13. Sample container intact?	Yes	No	· ·	livis denti z
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		A State of Frank
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(NA)	. Strat
17. VOC sample have zero head space?	(Yes)	No	NA	18 Section April Annual April
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4	vo.	Cooler 5 No	<b>A</b> .
Ibs 3. Coc Ibs oc Ibs	°C Ib	s 0	C ibs	°C

#### Nonconformance Documentation

Contact:	Contacted by:		Date/Time:		· · ·
Regarding:					
		· · · · · · · · · · · · · · · · · · ·		<u>,</u>	
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 399757**

### for Yates Petroleum Corporation

**Project Manager: Robert Asher** 

Laney AGJ Federal #1

30-015-26091

13-DEC-10



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#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), 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)
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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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

Final 1.000



13-DEC-10

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: **399757** Laney AGJ Federal #1 Project Address: Eddy County

#### Robert Asher:

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 399757. 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. 399757 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 399757



### Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-18.0 TB	S	Dec-07-10 10:43	12 - 12 ft	399757-001
Comp-16.0 NSW	S .	Dec-07-10 10:48	14 - 14 ft	399757-002
Comp-16.0 ESW	S	Dec-07-10 10:52	16 - 16 ft	399757-003
Comp-16.0 SSW	S	Dec-07-10 10:58	8 - 8 ft	399757-004
Comp-16.0 WSW	S	Dec-07-10 11:04	8 - 8 ft	399757-005



Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal #1



 Project ID:
 30-015-26091

 Work Order Number:
 399757

Report Date: 13-DEC-10 Date Received: 12/08/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

#### None

### Analytical Non Conformances and Comments:

Batch: LBA-835333 BTEX by EPA 8021 SW8021BM

Batch 835333, 1,4-Difluorobenzene recovered below QC limits Data not confirmed by reanalysis. Samples affected are: 590902-1-BLK,399757-005. QC not confirmed by re-analysis.

Batch: LBA-835357 BTEX by EPA 8021 SW8021BM

Batch 835357, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 399757-002 D,399757-003,399757-002,399757-004. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 399757-001.

#### SW8021BM

Batch 835357, o-Xylene recovered below QC limits in the Blank Spike Duplicate. Samples affected are: 399757-001, -002, -003, -004.

#### SW8021BM

Batch 835357, o-Xylene RPD was outside laboratory control limits. Samples affected are: 399757-001, -002, -003, -004

GIOGA

Project Id: 30-015-26091

Project Location: Eddy County

Contact: Robert Asher

### Certificate of Analysis Summary 399757

Yates Petroleum Corporation, Artesia, NM

Shelac

Project Name: Laney AGJ Federal #1

Date Received in Lab: Wed Dec-08-10 10:11 am

Report Date: 13-DEC-10

· · · · · · · · · · · · · · · · · · ·			···· ··· ·· · · ·	· · · •	Project Manager:	Brent Barron, II
	Lab Id:	399757-001	399757-002	399757-003	399757-004	399757-005
Analysis Requested	Field Id:	Comp-18.0 TB	Comp-16.0 NSW	Comp-16.0 ESW	Comp-16.0 SSW	Comp-16.0 WSW
Analysis Kequesteu	Depth:	12-12 ft	14-14 ft	16-16 ft	8-8 ft	. 8-8 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Dec-07-10 10:43	Dec-07-10 10:48	Dec-07-10 10:52	Dec-07-10 10:58	Dec-07-10 11:04
BTEX by EPA 8021	Extracted:	Dec-08-10 16:30	Dec-08-10 16:30	Dec-08-10 16:30	Dec-08-10 16:30	Dec-08-10 14:30
	Analyzed:	Dec-10-10 04:09	Dec-10-10 02:02	Dec-10-10 04:31	Dec-10-10 03:27	Dec-09-10 08:56
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.1019	ND 0.0010	ND 0.1017	ND 0.0010	ND 0.0011
Toluene	1	5.432 0.2038	0.0224 0.0020	5.878 0.2033	ND 0.0020	ND 0.0021
Ethylbenzene		6.869 0.1019	0.0156 0.0010	8.191 0.1017	ND 0.0010	ND 0.0011
m,p-Xylenes		2.032 0.2038	0.1127 0.0020	2.442 0.2033	ND 0.0020	ND 0.0021
o-Xylene		9.068 0.1019	0.0256 0.0010	11.05 0.1017	ND 0.0010	ND 0.0011
Xylenes, Total		11.100 0.1019	0.1383 0.0010.	13.49 0.1017	ND 0.0010	ND 0.0011
Total BTEX		23.401 0.1019	0.1763 0.0010	27.56 0.1017	ND 0.0010	ND 0.0011
Percent Moisture	Extracted:				•	
· · ·	Analyzed:	Dec-09-10 08:30	Dec-09-10 08:30	Dec-09-10 08:30	Dec-09-10 08:30	Dec-09-10 08:30
	Units/RL:	% RL	% RL	% RL	% RL	% RL
Percent Moisture		2.24 1.00	2.73 1.00	1.83 1.00	ND 1.00	5.57 1.00
TPH by SW 8015B	Extracted:	Dec-08-10 13:00	Dec-08-10 13:00	Dec-08-10 13:00	Dec-08-10 13:00	Dec-08-10 13:00
	Analyzed:	Dec-09-10 10:42	Dec-09-10 11:12	Dec-09-10 11:40	Dec-09-10 12:08	Dec-09-10 12:36
· · · · · · · · · · · · · · · · · · ·	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons	2 - 11 	1690 15.3	ND 15.4	3040 15.2	ND 15.1	ND 15.8
C10-C28 Diesel Range Hydrocarbons		2350 15.3	ND 15.4	4560 15.2	ND 15.1	ND 15.8
Total TPH		4040 15.3	ND 15.4	7600 15.2	ND 15.1	ND 15.8

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Brent Barron, II

Odessa Laboratory Manager

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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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

PQL Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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Projec	t Manager:	Robert Asher	r													<b>.</b>	Pr	ojeci	Na	me:	Lar	ıey	AC	GJ I	ed	lera	ı <b>l #</b>	1		
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Comp	any Address:	105 South 4t	h Street			· ·				÷							·	Proje	ct L	oc:	Eddy	COL	unty							
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AB # (lab use o				Beginning Depth	ig Depth	Sampled	Time Sampled	Itered	Fotal #. of Containers					ő	Other (Specify)		GW = Groundwater S NP=Non-Potable Sp		TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)		Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260		N	des		RUSH TAT (Pre-Schedule)
# EV	FIEI			Begin	Ending	Date	Time	Field Filtered	Total #	HNO	Ŷ	H <sub>2</sub> SO,	NaOH	Na <sub>2</sub> S <sub>2</sub> None	Other	DW≡Dr	GW = 0	TPH:	ΗdΤ	Cation	Anion	Matale	Volatil	Semiv	BTEX	ß	N.O.R.M.	Chlori		RUSH
	Com	p-18.0 TB		12'	12'	12/7/2010	10:43 AM		1)	<	·		Π				s	X					T		X	$\square$	$\square$	$\square$	$\Box$	Γ
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#### XENCO Laboratories

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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: Vates	
Date/Time: 12 - 8-10 10:11	
Lab ID #: 399757	
Initials: XM	

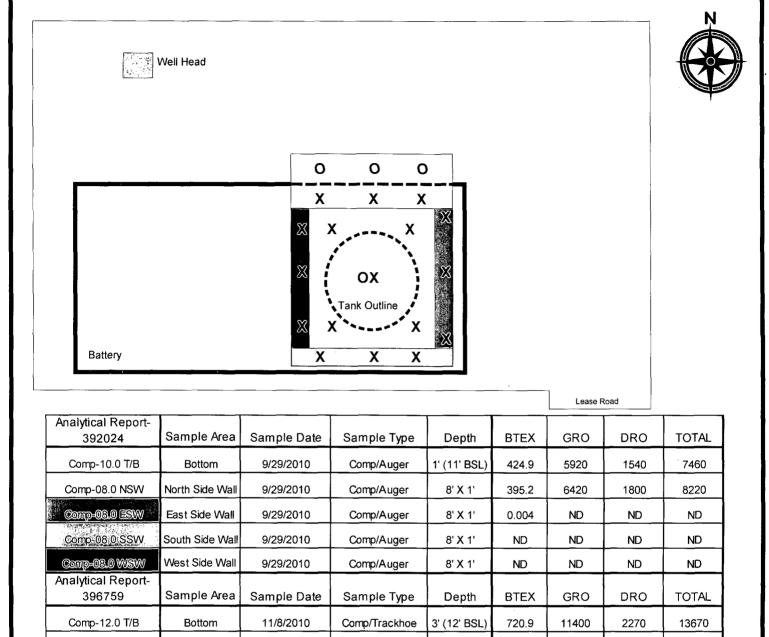
### Sample Receipt Checklist

	1		1	
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		ng ng ng ng sa
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		a de la composición de
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		e tel providence de la companya de l La companya de la comp
11. Samples in proper container / bottle?	Yes	No		and the second
12. Samples properly preserved?	Yes	No	N/A	en langar siya Marina
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?	Tes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No	•
lbs 3.5 °C lbs °C lbs °C	lbs	°C	ibs	o°

#### Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	·
Regarding:			
Corrective Action Take	en:		
······			
-	□ Cooling process has begun shortly after samplin condition acceptable by NELAC 5.5.8.3.1.a.	<b>1</b> .	• •
	□ Initial and Backup Temperature confirm out of te	mperature conditions	1

Client understands and would like to proceed with analysis



Comp-14.0 T/B Bottom 11/8/2010 Comp/Trackhoe 19880 5' (14' BSL) 920.5 16800 3080 Comp-16.0 T/B Bottom 11/8/2010 13970 Comp/Trackhoe 7' (16' BSL) 762.2 12000 1970 Comp-8X2 NSW North Side Wall 11/8/2010 Comp/Trackhoe 8' X 2' ND ND ND ND North Side Wall Comp-8X4 NSW 11/8/2010 8' X 4' Comp/Trackhoe ND ND ND ND Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

All results are ppm. BSL - Below Surface Level. X - Sample Points (9/29/2010) O - Sample Points (11/8/2010) Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010



Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale) Xenco Report #: 392024 Report Date: 10/5/2010

> Xenco Report #: 396759 Report Date: 11/15/2010

Prepared by Robert Asher Environmental Regulatory Agent

# **Analytical Report 396759**

for Yates Petroleum Corporation

**Project Manager: Robert Asher** 

Laney AGJ Federal # 1

30-015-26091

15-NOV-10



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 (AZ0738), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



15-NOV-10

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: **396759** Laney AGJ Federal # 1 Project Address: Eddy County

#### Robert Asher:

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 396759. 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. 396759 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 396759



# Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal # 1

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	Nov-08-10 14:18	12 - 12 ft	396759-001
S	Nov-08-10 14:23	14 - 14 ft	396759-002
S	Nov-08-10 14:27	16 - 16 ft	396759-003
S	Nov-08-10 14:31	8 - 8 ft	396759-004
S	Nov-08-10 14:34	8 - 8 ft	396759-005

Sample Id

Comp-12.0 TB
Comp-14.0 TB
Comp-16.0 TB
Comp-8X2 NSW
Comp-8X4 NSW



### CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal # 1



 Project ID:
 30-015-26091

 Work Order Number:
 396759

Report Date: 15-NOV-10 Date Received: 11/10/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

#### None

### Analytical Non Conformances and Comments:

Batch: LBA-831605 TPH by SW 8015B SW8015B NM

Batch 831605, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 396759-003,396759-001.

Batch: LBA-831762 BTEX by EPA 8021 SW8021BM

Batch 831762, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Samples affected are: 396759-005, -004. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-831952 BTEX by EPA 8021 SW8021BM

Batch 831952, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 396759-001,396759-003,396759-002.

### Certificate of Analysis Summary 396759

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal # 1



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County

### Date Received in Lab: Wed Nov-10-10 11:00 am

Report Date: 15-NOV-10

Toject Location: Eudy County	·			·		· · ·		Project Ma	nager:	Brent Barron	, II	
	Lah Id:	396759-0	001	396759-0	02	396759-0	003	396759-	004	396759-	005 .	
Art when Damas and al	Field Id:	Comp-12.0	) TB	Comp-14.0	Comp-14.0 TB		Comp-16.0 TB		NSW	Comp-8X4	NSW	
Analysis Requested	Depth:	12-12	ft	14-14 1	t	16-16 1	ft	8-8 ft		8-8 fi	t i	
	Matrix:	SOIL		SOIL	•	SOIL		SOIL		SOIL		
	Sampled:	Nov-08-10	14:18	Nov-08-10	14:23	Nov-08-10	14:27	Nov-08-10	14:31	Nov-08-10	14:34	
BTEX by EPA 8021	Extracted:	Nov-12-10	11:22	Nov-12-10	11:22	Nov-12-10	11:22	Nov-11-10	12:46	Nov-11-10	12:46	
	Analyzed:	Nov-12-10	16:56	Nov-12-10	17:17	Nov-12-10	17:38	Nov-11-10	17:33	Nov-11-10	17:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene	1.1	ND	11.03	ND	10.99	ND	10.74	ND	0.0011	ND	0.0011	
Toluene		164.2	22.06	206.1	21.97	182.1	21.47	ND	0.0021	ND	0.0022	
Ethylbenzene		54.48	11.03	67.79	10.99	61.52	10.74	ND	0.0011	ND	0.0011	
m,p-Xylenes		420.5	22.06	536.8	21.97	433.0	21.47	ND	0.0021	ND	0.0022	,
o-Xylene		81.72	11.03	109.8	10.99	85.57	10.74	ND	0.0011	ND	0.0011	-
Xylencs, Total		502.2	11.03	646.6	10.99	518.6	10.74	ND	0.0011	ND	0.0011	
Total BTEX		720.9	11.03	920.5	10.99	762.2	10.74	ND	0.0011	ND	0.0011	
Percent Moisture	Extracted:						٠,					
	Analyzed:	Nov-11-10	11:07	Nov-11-10	11:07	Nov-11-10	11:07	Nov-11-10	11:19	Nov-11-10	11:19	
	Units/RL:	%	RL	. %	RL	%	RL	% `-	RL	%	RL	
Percent Moisture		9.33	1.00	8.98	1.00	. 7.78	1.00	7.13	1.00	7.24	1.00	
TPH by SW 8015B	Extracted:	Nov-10-10	16:00	Nov-10-10	16:00	Nov-10-10	16:00	Nov-10-10	16:00	Nov-10-10	16:00	
	Analyzed:	Nov-11-10	12:08	Nov-11-10	12:38	/ Nov-11-10	14:33	Nov-11-10	11:11	Nov-11-10	11:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C10 Gasoline Range Hydrocarbons	1	11400	82.8	16800	165	12000	81.7	ND	16.2	ND	16.1	
C10-C28 Diesel Range Hydrocarbons		2270	82.8	3080	165	1970	81.7	ND	16.2	ND	16.1	
Total TPH		13670	82.8	19880	165	13970	81.7	ND	16.2	ND	16.1	

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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 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 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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

**PQL** Practical Quantitation Limit

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2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

Final 1.000

# **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: Robert A	sher				· · · ·				<u> </u>							Pr	ojeci	t Na	ne:	La	ney	AG	SJ F	ed	era	\ <i>#</i> ′	1			
	Company Name Yates Pe	troleum Corporal	tion _			· · ·										· .		Pr	ojec	t #: _	<u>3</u> 0-(	015-	2609	91							
	Company Address: 105 Sout	h 4th Street		•										_	I	Proje	ect L	oc: _	Edd	y Co	unty										
		M 88210																	PC	)#:	1056	532	_								_
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AB # (lab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	otal #. of Containers	lce	HNO <sub>3</sub>	Ð	H <sub>2</sub> SO <b>,</b> NaOH	4a2S2O3	None	Other ( Specify)	Drinking Water	GVV = Groundwater S=Sou NP=Non-Potable Specify	TPH: 418.1 8015M	TPH: TX 1005 1	Cations (Ca, Mg. Na, I	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	standard TAT
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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: Yates	
Date/Time: 11-10-10 11.00	
Lab ID #: 396759	
Initials: $XIV$	

### 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		د. بديند الالمحمير م
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		an Thank
9. Container labels legible and intact?	Yes	No	·	
10. Sample matrix / properties agree with chain of custody?	Yes	No ·		a a porte d
11. Samples in proper container / bottle?	Tes	No	4	
12. Samples properly preserved?	(Yes)	No	N/A	a tha chair a
13. Sample container intact?	Yes	No	:	ere para da la
14. Sufficient sample amount for indicated test(s)?	Yes	No		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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 N	0.	Cooler 5 No	tery. Boy
Ibs 5, °C Ibs °C Ibs °C	lbs	°C	lbs	⊃°C

### Nonconformance Documentation

Contacted by:	· · · · · · · · · · · · · · · · · · ·		 Date/Time:		
				.1	1 - A
		:			
			nd out of temperate	ure	· ·
	ng process has begu	ng process has begun shortly		ng process has begun shortly after sampling event and out of temperat	ng process has begun shortly after sampling event and out of temperature

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

# Analytical Report 392024

for

**Yates Petroleum Corporation** 

**Project Manager: Robert Asher** 

Laney AGJ Federal #1

30-015-26091

05-OCT-10



### 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 (AZ0738), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

Page 1 of 19





05-OCT-10

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: **392024** Laney AGJ Federal #1 Project Address: Eddy County

#### Robert Asher:

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 392024. 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. 392024 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,

ATI.

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



# Sample Cross Reference 392024



Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-10.0 TB	S	Sep-29-10 13:49	10 - 10 ft	392024-001
Comp-08.0 NSW	S	Sep-29-10 14:03	8 - 8 ft	392024-002
Comp-08.0 ESW	S	Sep-29-10 14:18	8 - 8 ft	392024-003
Comp-08.0 SSW	S	Sep-29-10 14:31	8 - 8 ft	392024-004
Comp-08.0 WSW	. <b>S</b> .	Sep-29-10 14:43	8 - 8 ft	392024-005



# CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal #1



 Project ID:
 30-015-26091

 Work Order Number:
 392024

Report Date: 05-OCT-10 Date Received: 10/01/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

### None

Analytical Non Conformances and Comments:

Batch: LBA-825786 BTEX by EPA 8021B SW8021BM

Batch 825786, 4-Bromofluorobenzene recovered above QC limits Sample Data confirmed by reanalysis. Samples affected are: 574992-1-BKS,574992-1-BLK,574992-1-BSD,392024-003 S,392024-003 SD,392024-003. Surrogate Failures in QC were not reanalyzed.

Batch: LBA-825796 BTEX by EPA 8021B SW8021BM

Batch 825796, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; QC data not confirmed by re-analysis Samples affected are: 392068-001 S,392068-001 SD.

Batch: LBA-825799 TPH By SW8015B Mod. SW8015B NM

Batch 825799, 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 392024-002. o-Terphenyl was within QC limits for this sample.

Batch: LBA-825962 BTEX by EPA 8021B SW8021BM

Batch 825962, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 392024-002.1,4-Difluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 392024-001. 4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples affected are: 575112-1-BLK,575112-1-BSD,392024-001,392024-005.

# Certificate of Analysis Summary 392024

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Fri Oct-01-10 09:45 am

Report Date: 05-OCT-10

roject Location: Eddy County	1. Sec.	1			-	
· · · · · · · · · · · · · · · · · · ·			<u> </u>	14 - A	<b>Project Manager:</b>	Brent Barron, II
	Lab Id:	392024-001	392024-002	392024-003	392024-004	392024-005
A I - Damas I	Field Id:	Comp-10.0 TB	Comp-08.0 NSW	Comp-08.0 ESW	Comp-08.0 SSW	Comp-08.0 WSW
Analysis Requested	Depth:	10-10 ft	8-8 ft	8-8 ft	8-8 ft	. 8-8 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-29-10 13:49	Sep-29-10 14:03	Sep-29-10 14:18	Sep-29-10 14:31	Sep-29-10 14:43
BTEX by EPA 8021B	Extracted:	Oct-04-10 13:00	Oct-04-10 13:00	Oct-03-10 14:00	Oct-01-10 17:00	Oct-04-10 13:00
	Analyzed:	Oct-04-10 20:13	Oct-04-10 21:45	Oct-03-10 17:08	Oct-02-10 05:40	Oct-04-10 17:05
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		2.717 0.5780	1.705 0.5554	ND 0.0011	0.0012 0.0011	ND 0.0055
Toluene		85.33 1.156	77.10 1.111	ND 0.0022	0.0090 0.0021	ND 0.0110
Ethylbenzene		37.38 0.5780	30.59 0.5554	ND 0.0011	0.0029 0.0011	ND 0.0055
m,p-Xylenes		229.8 1.156	221.1 1.111	0.0028 0.0022	0.0156 0.0021	ND 0.0110
o-Xylene		69.65 0.5780	64.70 0.5554	0.0012 0.0011	0.0044 0.0011	ND 0.0055
Total Xylenes		299.5 0.5780	285.8 0.5554	0.0040 0.0011	0.0200 0.0011	ND 0.0055
Total BTEX		424.9 0.5780	395.2 0.5554	0.0040 0.0011	0.0331 0.0011	ND 0.0055
Percent Moisture	Extracted:			· · ·		
	Analyzed:	Oct-01-10 17:00	Oct-01-10 17:00	Oct-01-10 17:00	Oct-01-10 17:00	Oct-01-10 17:00
	Units/RL:	- % RL	% RL	% RL	% RL	% RL .
Percent Moisture		13.5 1.00	9.97 1.00	7.35 1.00	6.26 1.00	8.74 1.00
TPH By SW8015B Mod	Extracted:	Oct-01-10 12:30	Oct-01-10 12:30	Oct-01-10 12:30	Oct-01-10 12:30	Oct-01-10 12:30
	Analyzed:	Oct-01-10 16:27	Oct-01-10 16:58	Oct-01-10 17:29	Oct-01-10 17:59	Oct-01-10 18:29
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons		5920 86.5	6420 83.2	ND 16.3	ND 16.0	ND 16.4
C10-C28 Diesel Range Hydrocarbons		1540 86.5	1800 83.2	ND 16.3	ND 16.0	ND 16.4
Total TPH		7460 86.5	8220 83.2	ND 16.3	ND 16.0	ND 16.4

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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 liability is 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

Page 5 of 19



# **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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

PQL Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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				couler #			_							Project Name: Laney AGJ Federal #1 Project #: 30-015-26091											
Company Name Yales Petroleus		n												Project #: 50-013-20091											
Company Address. 105 South 4th 5	Street		· · · · · · · · · · · · · · · · · · ·									·	I	Proj	ect Lo	bc: <u>E</u>	ady (	Cour	nty						
City/State/Zip: Artesia NM 88	3210		· · · · · · · · · · · · · · · · · · ·												PO	#: 1	0563	2							
Telephone No: 575.748-4217				Fax No		375	748-4	662					Repor	t Fo	rmat:	×	] Sta	anda	ard	Ľ	] TF	₹RP	ł	<b>ا</b> ا	NPDE
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2 Comp-08.0 ESW		8 8	9/29/2010	2:18 PM			x	_	Ŀ		$\parallel$		s	X			-			×	4	$\perp$	$\square$	1.	
4 Comp-08.0 SSW		8 8		2:31 PM		-	×	$\vdash$				_	S	X			┢			×		$\vdash$	++	·   .	╇
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Page 18 of 19

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XENCO Laboratories tanta, Boca Raton, Corpus Christi, Daltas ton, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa

ocument Title: Sample Receipt Checklist ent No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 or

#### Prelogin / Nonconformance Report - Sample Log-In

Client:	tis	
Date/Time:	10/11.0	9:45an
Lab ID # :	39.70	24
Initials:	MS,	

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?	Tes	No		
5. Sample instructions complete on chain of custody?	Ves	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)?	(Tes)	No		
9. Container labels legible and intact?	Yes	No		1
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Tes)	<sup>d</sup> No	·	
12. Samples property preserved?	Yes	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	Ges	No		
15. All samples received within sufficient hold time?	(Fes)	No		
16. Subcontract of sample(s)?	Yes	No	N/A	· .
17. VOC sample have zero head space?	Tes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	io.	Cooler 5 No.	
ibs 1, °C ibs °C ibs	°C lbs	°C	ibs	. 0

Nonconformance Documentation

gun shortly after sampling ble by NELAC 5.5.8.3.1.a.1. perature confirm out of temp 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

	Well Head								
Battery		Tank Outline	X X X	)					
							Lease Roa	ad	
Analytical Report- 376799 & 376805	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-002 B/E	Battery Edge	6/10/2010	Comp/Backhoe	2' BSL	539.0	4230	306	4536	229
Comp-004 B/E	Battery Edge	6/10/2010	Comp/Backhoe	4' BSL	695.4	16700	1470	18170	452
Comp-002 17/B	Tank Bottom	6/10/2010	Grab/Backhoe	2' BSL	127.9	1700	187	1887	2740
Comp-004 T/B	Tank Bottom	6/10/2010	Grab/Backhoe	4' BSL	518.7	5360	330	5690	235

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350, per New Mexico State Engineer Office).

Grab/Backhoe

Grab/Backhoe

6' BSL

8' BSL

359.6

541.4

3260

15900

189

1220

All results are ppm. Chloride results are for documentation. BSL - Below Surface Level. X - Sample Points

Released: 128 B/O & 5 B/PW; Recovered: 0 B/O & 0 B/PW. Release Date: 5/19/2010

6/10/2010

6/10/2010



Tank Bottom

Tank Bottom

Comp-006 T/B

Comp=003 17/B

Laney AGJ Federal. #1

30-015-26091

Section 11, T18S-R24E

Eddy County, NM

## SAMPLE DIAGRAM (Not to Scale)

3449

17120

11.2

7.78

Xenco Report #: 376799 & 376805 Report Date: 6/17/2010

Prepared by Robert Asher Environmental Regulatory Agent

# Analytical Report 376805

for

# **Yates Petroleum Corporation**

# **Project Manager: Robert Asher**

Laney AGJ Federal #1 30-015-26091

# 17-JUN-10





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), 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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STREE OF

17-JUN-10

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

Reference: XENCO Report No: 376805 Laney AGJ Federal #1 Project Address: Lea County, NM

#### **Robert Asher:**

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 376805. 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. 376805 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 376805



# Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-002B/E	S	Jun-10-10 10:02	2' - 2' ft	376805-001
Comp-004B/E	S	Jun-10-10 10:07	4' - 4' ft	376805-002
Comp-002T/B	S	Jun-10-10 10:15	2' - 2' ft	376805-003
Comp-004T/B	S	Jun-10-10 10:18	4' - 4' ft	376805-004
Comp-006T/B	S	Jun-10-10 10:21	6' - 6' ft	376805-005
Comp-008T/B	S	Jun-10-10 10:25	8' - 8' ft	376805-006
				•



# CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal #1



 Project ID:
 30-015-26091

 Work Order Number:
 376805

Report Date: 17-JUN-10 Date Received: 06/11/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-810369 Percent Moisture None

Batch: LBA-810903 Inorganic Anions by EPA 300 None

# Certificate of Analysis Summary 376805

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Lea County, NM

Date Received in Lab: Fri Jun-11-10 01:43 pm

Report Date: 17-JUN-10

						· ·		Project Ma	nager:	Brent Barron,	II		
	Lab Id:	376805-0	001	376805-0	02	376805-0	003	376805-0	)04	376805-0	05	376805-0	06
Anglasia Demonstrad	Field Id:	Comp-002	Comp-002B/E		B/E	Comp-002T/B		Comp-004T/B		Comp-006T/B		Comp-008T/B	
Analysis Requested	Depth:	2'-2' fi	2'-2' ft			2'-2' ft	2'-2' ft			6'-6' ft		8'-8' ft	
	Matrix:	SOIL		SOIL	· .	SOIL	· •	SOIL		SOIL		SOIL	
	Sampled:	Jun-10-10	10:02	Jun-10-10 1	0:07	Jun-10-10 1	10:15	Jun-10-10	10:18	Jun-10-10 I	0:21	Jun-10-10 1	0:25
Anions in Soil By EPA 300.0	Extracted:												
	Analyzed:	Jun-16-10	08:46	Jun-16-10 0	8:46	Jun-16-10 (	08:46	Jun-16-10 (	08:46	Jun-16-10 (	8:46	Jun-16-10 0	)8:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		229	9.89	452	9.58	2740	50.7	235	10.1	11.2	4.88	7.78	4.72
Percent Moisture	Extracted:												
	Analyzed:	Jun-12-10	09:20	Jun-12-10 0	9:20	Jun-12-10 (	09:20	Jun-12-10 (	09:20	Jun-12-10 (	9:20	Jun-12-10 0	9:20
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		15.1	1.00	12.3	1.00	17.2	1.00	- 17.1	1.00	• 14.0	1.00	. 11.1	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 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



# **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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- 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

PQL Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

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	Project Manager:	Robert Asher					Cooler #		1							_	Pro	ojec	t Na	пе: _	Lan	ey A	GJ	Fed	lera	#1				
	Company Name	Yates Petroleu	um Corporat	ion				•								_		Pı	rojec	ι#:_	30-0	15-2	2609	<u>91</u>						
	Company Address:	105 South 4th	Street		_	• •			· I	_						_	F	Proje	ect L	oc:	Eddy	Cou	inty							
	City/State/Zip:	Artesia, NM 8	88210			r.			ļ			_							PC	)#:	1056	32								
	Telephone No:	575-748-4217					Fax No:		575-	748-	1662					F	lepor	t Fo		-	×s	_	lard			TRE	RP,	Γ		וסי
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AB # (lab use only)				Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	Cotal #. of Containers	83 1004	ΨCI	'so'	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None Other ( Specify)	DW=Drinking Water SL=Skudge	GVV = Groundwater S=SpatSolid NP=Non-Potable Specity Other	TPH: 418.1 B015M 80	TPH: TX 1005 TX 1008	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkatinity) SAB / ESD / CEC	Metals: As Ao Ba Cd Cr Pb Ho	Volaties	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RC	N.O.R.M.	Chlorides		Dileu TAT -
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24	Com	p-004T/B		4'	4'	6/10/2010	10:18 AM		1	x							s	x							x			x		L
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Page 10 of 11



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#### XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi. Dallas

Houston, Miami, Odessa, Philadelphia

Phoenix, San Antonio, Tampa

Document Title:	Sample Rece	eipt Checklist
Document No.:	SYS-SRC	
Revision/Date:	No. 01, 5/27/2	010
Effective Date:	6/1/2010	Page 1 of 1

# Prelogin / Nonconformance Report - Sample Log-In

Client:	Yates Petro leum	
Date/Time:	611.10 9:45	
Lab ID # :	376799 / 376805	
Initials:	AL	

### 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?	(Ves	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?	res	No		
10. Sample matrix / properties agree with chain of custody?	Xee	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	8 a. 1	· · · ·
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	
	°C lbs	°C	ibs	°C

#### Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	· · · · · ·
Regarding:	$ \frac{\partial (x_{i})}{\partial x_{i}} = \frac{\partial (x_{i})}{\partial x_{i}} + \partial$		
· · · · · · · · · · · · · · · · · · ·		· · ·	
Corrective Action Taken:	·		
			· · · · ·
	· · · · · · · · · · · · · · · · · · ·		
	oling process has begun shortly after sampl		

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 376799

for

# Yates Petroleum Corporation

# **Project Manager: Robert Asher**

Laney AGJ Federal #1 30-015-26091

# 17-JUN-10





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





17-JUN-10

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: **376799** Laney AGJ Federal #1 Project Address: Lea County, NM

#### **Robert Asher:**

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 376799. 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. 376799 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 376799



# Yates Petroleum Corporation, Artesia, NM

Laney AGJ Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-002B/E	S	Jun-10-10 10:02	2' - 2' ft	376799-001
Comp-004B/E	S	Jun-10-10 10:07	4' - 4' ft	376799-002
Comp-002T/B	S	Jun-10-10 10:15	2' - 2' ft	376799-003
Comp-004T/B	S	Jun-10-10 10:18	4' - 4' ft	376799-004
Comp-006T/B	S	Jun-10-10 10:21	6' - 6' ft	376799-005
Comp-008T/B	S	Jun-10-10 10:25	8' - 8' ft	376799-006





Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal #1



 Project ID:
 30-015-26091

 Work Order Number:
 376799

Report Date: 17-JUN-10 Date Received: 06/11/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-810369 Percent Moisture None

Batch: LBA-810858 BTEX by EPA 8021 SW8021BM

Batch 810858, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 376799-001,376799-003,376799-002.

### SW8021BM

Batch 810858, Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 376799-002, -003, -001. The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-810931 TPH by SW 8015B SW8015B NM

Batch 810931, 1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 376799-006,376799-002.

#### SW8015B\_NM

Batch 810931, C10-C28 Diesel Range Hydrocarbons, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 376799-004, -002, -005, -006, -003, -001.

The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons , C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Laney AGJ Federal #1



 Project ID:
 30-015-26091

 Work Order Number:
 376799

Report Date: 17-JUN-10 Date Received: 06/11/2010

Batch: LBA-810935 BTEX by EPA 8021 SW8021BM

Batch 810935, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 376799-006. 4-Bromofluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 565901-1-BLK.

 $\mathbf{T}$ 

# Certificate of Analysis Summary 376799

Yates Petroleum Corporation, Artesia, NM

Project Name: Laney AGJ Federal #1



Project Id: 30-015-26091 Contact: Robert Asher

Project Location: Lea County, NM

Date Received in Lab: Fri Jun-11-10 09:45 am

Report Date: 17-JUN-10

roject Location: Lea County, NM				· · · ·									
					• • •	· .		Project Ma	nager:	Brent Barron	, II		
	Lab Id:	376799-	001	376799-	002·	376799-(	003	376799-	004	376799-	005	376799-0	006
Anglusia Deguarted	Field Id:	Comp-002	2B/E	Comp-004	B/E	Comp-002	T/B	Comp-004	4 <b>T/B</b>	Comp-00	6T/B	Comp-008	T/B
Analysis Requested	Depth:	2'-2' f	t j	4'-4' f	t,	2'-2' fi		4'-4' f	t	6'-6' f	t	8'-8' ft	
	Matrix:	SOIL		SOIL	· ·	SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	Jun-10-10	10:02	Jun-10-10	10:07	Jun-10-10	10:15	Jun-10-10	10:18	Jun-10-10	10:21	Jun-10-10 1	0:25
BTEX by EPA 8021	Extracted:	Jun-15-10	14:00	Jun-15-10	14:00	Jun-15-10	14:00	Jun-16-10	08:30	Jun-16-10	08:30	Jun-16-10 0	08:30
	Analyzed:	Jun-15-10	19:41	Jun-15-10	20:48	Jun-15-10	21:55	Jun-16-10	18:37	Jun-16-10	20:06	Jun-16-10 2	21:13
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		8.764	5.843	9.935	5.645	1.981	1.208	34.98	30.16	ND	11.63	ND	11.24
Toluene		76.13	11.69	128.3	11.29	7.621	2.415	154.1	60.31	99.30	23.26	140,0	22.47
Ethylbenzene		58.78	5.843	69.49	5.645	7.186	1.208	ND	30.16	40.12	11.63	47.64	11.24
m,p-Xylenes		323.3	11.69	397.5	11.29	87.10	2.415	259.7	60.31	183.7	23.26	292.6	22.47
o-Xylene		71.98	5.843	90.20	5.645	24.01	1.208	. 69.96	30.16	36.51	11.63	61.12	11.24
Xylenes, Total		395.3	5.843	487.7	5.645	111.11	1.208	329.7	30.16	220.2	11.63	353.7	11.24
Total BTEX		539.0	5.843	695.4	5.645	127.90	1.208	518.7	30.16	359.6	11.63	541.4	11.24
Percent Moisture	Extracted:												
	Analyzed:	Jun-12-10	09:20	Jun-12-10	09:20	Jun-12-10 (	9:20	Jun-12-10	09:20	Jun-12-10	09:20	Jun-12-10 0	9:20
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		15.1	1.00	12.3	1.00	17.2	1.00	17.1	1.00	14.0	1.00	11.1	1.00
TPH by SW 8015B	Extracted:	Jun-12-10	09:30	Jun-12-10	09:30	Jun-12-10 (	09:30	Jun-12-10	09:30	Jun-12-10	09:30	Jun-12-10 0	9:30
	Analyzed:	Jun-15-10	18:43	Jun-16-10	14:15	Jun-15-10 19:37		Jun-15-10	20:04	Jun-15-10	20:32	Jun-16-10 1	4:42
	Units/RL:	' mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons	1. ·	4230	17.6	16700	85.3	1700	18.0	5360	18.2	3260	87.6	15900	84.1
C10-C28 Diesel Range Hydrocarbons		306	17.6	1470	85.3	187	18.0	330	18.2	189	87.6	1220	84.1
Total TPH	· .	4536	17.6	18170	85.3	1887	18.0	5690	18.2	3449	87.6	17120	84.1

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 Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end 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

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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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.

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

**PQL** Practical Quantitation Limit

\* Outside XENCO's scope of NELAC Accreditation.

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4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280							
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139							
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335							
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033							
5757 NW 158th St. Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555							
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713							
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116							

	CO-Environn										Vest	1-20	) East 7976	1			LEU.	Uni.	/ 40	,	P	hon		32-56 32-56	3-11	300			
Pro	Project Manager: Robert Asher					Cooler #		!				-,				P	ojec	t Na	me:_	Lan	ıey	AG.	J Fe	dera	1 #1		<u> </u>		
Co	Company Name Yates Petroleum Corporation					· · · · · · · · · · · · · · · · · · ·									Project #: 30-015-26091														
Co	Company Address: 105 South 4th Street													_	Project Loc: Eddy County														
Cit	City/State/Zip: Artesia, NM 88210														PO #: 105632														
Tel	Telephone No: 575-748-4217				· · · ·	Fax No: 575-748-4862																	۶D						
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DER #:	376799/3	16805	2	· ·	· · · · · · · · · · · · · · · · · · ·			· ·	F	Preser	vation	4.	of Cont	ainers I I	-	Aatrix	168			Т		å		<del>R</del>					
AB # (tab use only)			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Fittered	otal #. of Containers	lœ	HNO3	HCI H-SO.	NaOH	Ne <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify) DW=Drinking Water SL=Skudge	GV = Groundwater S=So&Solid NP=Non-Potable Specify Other	TPH: 418.1 B015M 8	TPH: TX 1005 TX 1008	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkatinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	voraures Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		
	FIELD CODE Comp-002B/E		2'	<u>1</u> 2'	6/10/2010	10:02 AM	<u>l</u> ä		1	I I	II		z	z	2 2	ις S	F X	F-1	3	₹	S S	ž	5 05	™ X	Ē		×	+	ť
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)3	Comp-002T/B		2'	2'	6/10/2010	10:15 AM		1								S	X							x			x	1	t
24	Comp-004T/B		4'	4'	6/10/2010	10:18 AM		1	<b>.</b>	$\square$	_					S	X		·					X			x		ļ
)5	Comp-006T/B		6'	6'	6/10/2010	10:21 AM	<u> </u>	1		-		4	$\downarrow$	$\square$	$\perp$	S	X		$\downarrow$	_	4	_	+	X		-+-	× _	4_	ļ
<u></u>	Comp-008T/B	·	8'	8'	6/10/2010	10:25 AM		11	X	+	╇	+	+	$ \rightarrow $		S	×	┝┤	-+	+	+	+	+-	X		+	<u>× </u>	┾	ł
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CARLES OF THE

**XENCO** Laboratories

Atlanta, Boca Raton, Corpus Christi. Dallas Houston, Miami, Odessa, Philadelphia 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 k

# Phoenix, San Antonio, Tampa

Client:	Yates Petro Icum
Date/Time:	6.11.10 9:45
Lab ID # :	376799 / 376805
Initials:	AL

### Sample Receipt Checklist

Prelogin / Nonconformance Report - Sample Log-In

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?	Ves	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?	Tes	No		
8. Chain of custody agrees with sample label(s)?	(res)	No		
9. Container labels legible and intact?	(Yes)	No	the Article	
10. Sample matrix / properties agree with chain of custody?	Xee	No	14 1	
11. Samples in proper container / bottle?	Tes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		and the second
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	).	Cooler 5 No	·
	°C lbs	°C	lbs	· •

#### Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
•		
Regarding:	· · · · · · · · · · · · · · · · · · ·	
· .	· · · · · · · · · · · · · · · · · · ·	
Corrective Action	Taken:	
Check all that and	bly: □Cooling process has begun shortly after sa	

condition acceptable by NELAC 5.5.8.3.1.a.1.

Dinitial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis