MARTIN YATES, III 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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JOHN D. PERINI CHIEF FINANCIAL OFFICER

March 29, 2011

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

Re: Creek AL Federal #19 2RP-454 30-015-32896 Section 25, T18S-R30E Eddy County, New Mexico



Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on September 8, 2010 (20 B/O & 10 B/ PW release with approximately 0 B/O & 0 B/PW recovered). Per the September 22, 2010 C-141, Initial Report submitted to your office, vertical/horizontal delineation samples were taken (these and subsequent samples were sent to an NMOCD approved laboratory). The impacted soils were excavated to a depth of two (2) feet and taken to an NMOCD approved facility. Vertical and horizontal delineation samples were taken on October 21, 2010 and November 11, 2010. Based on results an additional six (6) feet of impacted soils were excavated and taken to an NMOCD approved facility. On March 21, 2011, vertical/horizontal delineation samples were taken and subsequent samples were sent to an NMOCD approved laboratory. Enclosed are the analytical reports and sample diagram. Site ranking is zero (0), with the depth to ground water >100' (approximately 184'). RRAL's based on the site ranking of 0, are below levels for BTEX (ppm) @ 50 and TPH (ppm) @ 5000, (chlorides are for documentation and show decreasing levels). Yates Petroleum Corporation requests closure based on the corrective actions taken and analytical results.

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

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher Environmental Regulatory Agent

/rca Enclosure(s)



Analytical Report-	STOTIC			Depth			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	All All and	100 C
389690 & 389693	Sample Area	Sample Date	Sample Type	(BSL)	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	9/13/2010	Comp/Auger	6" (0.5')	47.5	357	1610	1967	514
Comp-01.0	Release Area	9/13/2010	Comp/Auger	12" (1.0')	57.1	715	2250	2965	396
Comp-01.5	Release Area	9/13/2010	Comp/Auger	18" (1.5')	86.5	765	1890	2655	556
A total o	of two (2) feet	of impacted s	soils were exc	avate and t	aken to	an NMOC	D approv	ved facility	
Analytical Report- 394627 & 394629	Sample Area	Sample Date	Sample Type	Depth (BSL)	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	10/21/2010	Comp/Auger	6" (2.5')	1.9	95.8	670	766	343
Comp-01.0	Release Area	10/21/2010	Comp/Auger	12" (3.0')	13.3	402	2100	2502	437
Comp-01.5	Release Area	10/21/2010	Comp/Auger	18" (3.5')	15.3	389	1950	2339	736
Analytical Report- 396755 & 396758	Sample Area	Sample Date	Sample Type	Depth (BSL)	втех	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	11/11/2010	Comp/Auger	6" (4.0')	8.2	142	720	862	582
Comp-01.0	Release Area	11/11/2010	Comp/Auger	12" (4.5')	53.0	265	778	1043	1330
Comp-01.5	Release Area	11/11/2010	Comp/Auger	18" (5.0')	200.7	979	2370	3349	1540
Additional six (6) feet (total de	pth is 8') of in	npacted soils	were excav	/ated/tak	ten to an	NMOCD	approved	facility.
Analytical Report- 410556 & 410557	Sample Area	Sample Date	Sample Type	(BSL)	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-09.0	Release Area	3/21/2011	Comp/Auger	1' (9.0')	ND	ND	ND	ND	850
Comp-10.0	Release Area	3/21/2011	Comp/Auger	2' (10.0')	ND	ND	ND	ND	603
Comp-11.0	Release Area	3/21/2011	Comp/Auger	3' (11.0')	ND	ND	ND	ND	581

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 184', per trend map).

All results are ppm. Chloride results are for documentation.



Creek AL Federal #19 30-015-32896

Section 25, T18S-R30E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

All Analytical Testing conducted by Xenco Laboratories; Odessa, TX

Prepared by Robert Asher Environmental Regulatory Agent

Analytical Report 410557

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

24-MAR-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)

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STREES IN ACCOAD

24-MAR-11

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

Reference: XENCO Report No: **410557 Creek AL Federal # 19** 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 410557. 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. 410557 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,

GOMP.

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 410557

Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-09.0	S	Mar-21-11 10:26	9 - 9 ft	410557-001
Comp-10.0	S	Mar-21-11 10:43	10 - 10 ft	410557-002
Comp-11.0	S	Mar-21-11 10:57	11 - 11 ft	410557-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 410557

Report Date: 24-MAR-11 Date Received: 03/22/2011

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Project Id: 30-015-32896

Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 410557

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



Date Received in Lab: Tue Mar-22-11 10:15 am

Report Date: 24-MAR-11

Project Manager: Brent Barron, II

	Lab Id:	410557-	001	410557-0	002	410557-0	003		
Analysis Paguastad	Field Id:	Comp-0	9.0	Comp-10	0.0	Comp-11	1.0		
Analysis Requested	Depth:	9-9 f	t	10-10 f	ì	11-11 f	ft		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Mar-21-11	10:26	Mar-21-11	10:43	Mar-21-11	10:57		
Anions by E300	Extracted:								
	Analyzed:	Mar-22-11	13:43	Mar-22-11	13:56	Mar-22-11	14:09		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		850	17.7	603	17.6	581	17.5		
Percent Moisture	Extracted:								
	Analyzed:	Mar-22-11	17:00	Mar-22-11	17:00	Mar-22-11	17:00		
	Units/RL:	%	RL	%	RL	%	RL	_	
Percent Moisture		5.35	1.00	4.81	1.00	4.00	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

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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
-		

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Environmental Lab of Texas

Page 10 of 11

Final 1.000

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	Project Manager: Re	obert Asher			<u> </u>										··	_	I	Proj	ect	Nam	e: _C	ree	ek /	AL.	Fee	dera	al #	7 19				
	Company Name Ya	ates Petroleum Corporat	ion													_			Pro	ject	#: <u>3</u> (0-01	5-3	289	6							
	Company Address: 10	5 South 4th Street														_		Pr	ojec	t Lo	c: <u>E</u> c	idy (Cour	nty								
	City/State/Zip: Ar	tesia, NM 88210					<u> </u>									_				PO	#: <u>10</u>	563	2									
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LAB # (lab use only)	41055 Field (Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Fittered	Total #. of Containers	lce	HNO ₃	HCI	H ₂ SO,	NaOH	Na ₂ S ₂ O ₃	None Other (Specify)	DW≐Drinking Water SL=Sludge	GW = Groundwater S=Sail/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	Cations (Co Mo Mo Mo V)	Califoris (Cd. Nig. Nd. K) Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 4	Standard TAT
QL	Comp-	09.0	9'	9'	3/21/2011	10:26 AM			X		\downarrow			\downarrow			S		x							×	_	$ \rightarrow $	x	\perp	╇	X
01	Comp	-10.0	10'	10'	3/21/2011	10:43 AM			X	_	_	_		_			S		x		1	_	ļ			×	\rightarrow	\rightarrow	쐰		╞	X
03	Comp-	11.0	11'	11'	3/21/2011	10:57 AM			X	-	\rightarrow	-+	+	-	+	╀	S	+	×	+	+	+	<u> </u>			×	-+	+	×	+	╀╴	X
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Relinquis Robert A Relinquis	Instructions: hed by: sher Erst (M hed by:	TPH 8015M, BTI Date 03/21/11 Date	EX 80	218 &	Received by: Received by:	ALL results in	mg.	/kg.	. Tł		k yo	u.			0	ate			me		abora ampli OCs abels ustoc ustoc ampli by. by.	e Co Free on o ly se ly se e Ha Sam Cour	Container of F container als c als c nd E pler/f ier?	mme hers lead ainer on co on co Delive Clien	ents Inta spac (s) ontai ooler ered t Rep UPS	: ct? ce? ner(s (s) p. ?	s) DHL	Ē	PHA KIRRAN		N N N N N N ne St	ar
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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 Jü	tes Petro	leum	
Date/Time:	3.21.11	10:15	· · · · · · · · ·
Lab ID # :	410556	1410567	· · · ·
Initials:	P	F.	

Sample Receipt Checklist

1. Samples or	n ice?					Blue	(Water)	No	
2. Shipping a	ontainer in g	good condi	ition?			Yes	No	None	
3. Custody se	als intact o	n shipping	container (co	oler) and bott	ies?	Yes	No	N/A	
4. Chain of C	ustody pres	ent?				Yes	No		
5. Sample ins	tructions c	omplete on	chain of cus	tody?		Yes	No		
6. Any missin	ig / extra sa	mples?				Yes	No		
7. Chain of ca	istody sign	ed when re	linguished / 1	eceived?		Yes	No		
8. Chain of ca	stody agre	es with sa	nple label(s)?	>		Yes	No		
9. Container	abels legibl	le and inta	ct?			Yes	No		
10. Sample m	atrix / prop	erties agre	e with chain o	of custody?		Yes	No		
11. Samples	in proper co	mtainer / b	ottie?			Yes	No		
12. Samples	property pre	served?				Yes	No	N/A	
13. Sample c	ontainer int	act?				Tes	No		
14. Sufficient	sample am	ount for in	dicated test(s	;)?		Yes	No		
15. All sampl	es received	within suf	ficient hold fi	me?		Yes	No		
16. Subcontr	act of samp	ie(s)?				Yes	No	NA	
17. VOC sam	ple have ze	ro head sp	ace?			Yes	No	N/A	
18. Cooler 1	No.	Cooler 2	No.	Cooler 3 No.		Cooler 4 N	o	Cooler 5 No.	
lbs	3,600	libs	°C		lbs °(lbs	°(lbs	°C
			Non	conformanc	ce Docume	entation			
Contact			_Contacted b	y:			Date/Time:		

.

Regarding:

· • .

Corrective Action Taken:

.

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.2.1.

Client understands and would like to proceed with analysis

÷.

Analytical Report 410556

for Yates Petroleum Corporation

Project Manager: Robert Asher

Creek Al Federal # 19

30-015-32896

24-MAR-11



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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)

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> 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)



24-MAR-11



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

Reference: XENCO Report No: 410556 Creek Al Federal # 19 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 410556. 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.

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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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A STATUTE AND A ST



Sample Cross Reference 410556

Yates Petroleum Corporation, Artesia, NM

Creek Al Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-09.0	S	Mar-21-11 10:26	9 - 9 ft	410556-001
Comp-10.0	S	Mar-21-11 10:43	10 - 10 ft	410556-002
Comp-11.0	S	Mar-21-11 10:57	11 - 11 ft	410556-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Creek Al Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 410556

Report Date: 24-MAR-11 Date Received: 03/22/2011

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-849032 BTEX by EPA 8021B SW8021BM

Batch 849032, m_p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 410556-001, -002, -003. The Laboratory Control Sample for *m p*-Xylenes is within laboratory Control Limits

Certificate of Analysis Summary 410556

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek Al Federal # 19



Project Id: 30-015-32896 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Tue Mar-22-11 10:15 am

Report Date: 24-MAR-11

Project Manager: Brent Barron, II

	Lab Id:	410556-0	01	410556-0	02	410556-0	03		
Analysis Paguastad	Field Id:	Comp-09	0.0	Comp-10	0.0	Comp-11	.0		
Anaiysis Requesieu	Depth:	9-9 ft		10-10 fi	t	11-11 f	ì		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Mar-21-11	10:26	Mar-21-11 1	10:43	Mar-21-11	10:57		
BTEX by EPA 8021B	Extracted:	Mar-22-11	13:35	Mar-22-11 1	13:35	Mar-22-11	13:35		
	Analyzed:	Mar-23-11	00:21	Mar-23-11 (00:44	Mar-23-11 (01:06		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.0011	ND	0.0011	ND	0.0011		
Toluene		ND	0.0021	ND	0.0021	ND	0.0021		
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0011		
m_p-Xylenes		ND	0.0021	ND	0.0021	ND	0.0021		
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0011		
Total Xylenes		ND	0.0011	ND	0.0011	ND	0.0011		
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0011		
Percent Moisture	Extracted:								
	Analyzed:	Mar-22-11	17:00	Mar-22-11 1	17:00	Mar-22-11	17:00		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		5.35	1.00	4.81	1.00	4.00	1.00		
TPH By SW8015B Mod	Extracted:	Mar-22-11	10:45	Mar-22-11 I	10:45	Mar-22-11	10:45		
	Analyzed:	Mar-23-11	04:04	Mar-23-11 ()4:34	Mar-23-11 (05:05		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		ND	15.8	ND	15.8	ND	15.6		
C10-C28 Diesel Range Hydrocarbons		ND	15.8	ND	15.8	ND	15.6		
Total TPH		ND	15.8	ND	15.8	ND	15.6		

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



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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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	Project Manager: Robert Asher														-	Pre	ojec	t Na	me:	Cr	eel	<u>k A</u>		Fec	lera	<u>al #</u>	<u> </u>	1			
	Company Name Yates Petroleum Corpo	pration													_		Pr	ojec	:t #:	30	015	5-32	289(6							
	Company Address: 105 South 4th Street														-	F	Proj€	ect L	.oc:	Edd	ly Cr	ount	ty								
	City/State/Zip: Artesia, NM 88210														-			PC) #:	105	632										<u></u> .
	Telephone No: 575-748-4217			<u> </u>	Fax No:	5	575-	-748-	466	2					R	ерог	t Fo	rmat	t:	x	Star	ndar	rd	(rrr	₹P	٢	_] N	PDE	S
	Sampler Signature	L.			e-mail:	ţ	bol	ba@	Ͽγ	ates	spe	etrol	eun	<u>1.c</u>	om															معدود	-
(lab use	only)																E			т	CLP:	An	alyz	.e Fo)r:	T	T	—	—	-	
ORDE	R#: 410556						_[Pre	esen	vation	8.#	of Con	tainer	s	Ма	trix	58			TO	TAL:	Se		-	00					48, 72	
LAB # (lab use only)	410557 FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	50NH	HCI H SO	N204	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL≂Studge GW= Groundwater S=ScritSolid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 801	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 826	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24,	Standard TAT
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	PLEASE PUT CHLORIDES																									1					
	ON SEPARATE REPORT																														
Special Relinquis Robert A Relinquis	Instructions: TPH 8015M, E hed by: sher hed by: bet by: bate Date 03/21/1 Date		ime 1 PM	Received by:	ALL results in	mg/ 	kg.	The	ank	you	I. 			Da	te		Time	•	Labo Sam VOC Labo Cust Cust Sam	prat ple s Fi els c ody ody ple	ory (Coni ree c in co sea sea Han	Con Itaine of He Intai Is or Is or Is or	nme ers I eads iner(n co n co elive	nts: Intac spac (s) intair oler(ered	:t? e? her(s [s)	;)		COCCAR	ふ つうううひ	N N N N N N N N N N N N N N N N N N N	
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Page 14 of 15

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i.

XENCO Laboratories

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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: 10	ites Petro	leum	
Date/Time:	3.22.11	10:15	
Lab ID # :	410556	141056	7
initials:	P	¥F.	

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?	2	Yes	No	N/A	
4. Chain of Custody present?		Yes	No		
5. Sample instructions complete on chain of custody?		Yes	No		
6. Any missing / extra samples?		Yes	No		·
7. Chain of custody signed when relinquished / received?		Yes	No		
8. Chain of custody agrees with sample label(s)?		Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?	(Yes	No ·		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s)?		Yes	No	<u> </u>	
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.	c	cooler 4 No	۶	Cooler 5 No.	
lbs 3, 6°c lbs °c lbs	°C	lbs	°C	lbs	°(
Nonconformance I	Document	tation			
Cardenate Cardenate Inc.			Data Firman		

Regarding:		
Corrective Action Tak	en:	
:		
Check all that apply:	 □ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 55.8.3.1.2.1. □ Initial and Backup Temperature confirm out of temperature conditions □ Client understands and would like to proceed with analysis 	÷

Analytical Report 396758

for Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

15-NOV-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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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: **396758** Creek AL Federal # 19 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 396758. 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. 396758 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,

BOTH

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 396758

Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-02.0	S	Nov-08-10 10:58	24 - 24 In	396758-001
Comp-02.5	S	Nov-08-10 11:17	30 - 30 In	396758-002
Comp-03.0	S	Nov-08-10 11:29	36 - 36 In	396758-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 396758

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

Project Id: 30-015-32896

Contact: Robert Asher

Certificate of Analysis Summary 396758

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



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

Report Date: 15-NOV-10

roject Location: Eddy County								Report Date:	15-NOV-10	
								Project Manager:	Brent Barron, II	
	Lab Id:	396758-(001	396758-0)02	396758-0)03			
Anglusis Degregated	Field Id:	Comp-02	Comp-02.0		Comp-02.5		3.0			
Analysis Kequesieu	Depth:	. 24-24 J	24-24 In		30-30 In		n			
	Matrix:	SOIL		SOIL	SOIL					
	Sampled:	Nov-08-10	10:58	Nov-08-10	11:17	Nov-08-10	11:29			
Anions in Soil By EPA 300.0	Extracted:					1				
	Analyzed:	Nov-11-10	12:31	Nov-11-10	12:44	Nov-11-10	12:57			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		582	8.67	1330	17.5	1540	21.9			
Percent Moisture	Extracted:									
	Analyzed:	Nov-11-10	11:07	Nov-11-10	11:07	Nov-11-10	11:07			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		3.10	1.00	4.27	1.00	3.97	1.00			

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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.
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MDL Method Detection Limit

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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
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Environmental Lab of Texas CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST A Xenco Laboratories Company 12600 West I-20 East Odessa, Texas 79765

	Project Manager:	Robert Asher														_	Pr	ojec	t Na	me:	Cr	eel	<u> </u>	LF	ed€	eral	#1	9			
	Company Name	Yates Petroleum Corpor	ation															P	roje	:t #:	30-	015	<u>i-32</u>	<u>896</u>							
	Company Address:	105 South 4th Street													<u> </u>	-		Proj	ect L	.oc:	Edd	y Co	ount	<u>у</u>							
	City/State/Zip:	Artesia, NM 88210														_			P) #:	1050	<u> 332</u>								-	
	Telephone No:	575-748-4217				Fax No:		57	5-74	8-46	62_					_	Repo	rt Fo	rma	t:	X	Star	ndar	d	Ľ] 11	٦RP			NPDE	S
	Sampler Signature:						com	ļ												<u> </u>											
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_AB # (lab use only)	FIEL	-D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	rield Filtered	Fotal #. cf Containers	lce	HNO3	HCI	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	Nore Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8	TPH: TX 1005 TX 100	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb H	Volatiles	BTEX 80218/5030 or BTEX 8	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 2	Standard TAT
01	Cor	np-02.0	24"	24"	11/8/2010	10:58 AM			x						\top		s	x			-†	-†	+	-†-	Tx	:	\uparrow	X		+	X
02	Cor	mp-02.5	30"	30"	11/8/2010	11:17 AM			x					-1-		Γ	S	x				1	T	1	X	:	\top	x		+	x
25	Cor	mp-03.0	36"	36"	11/8/2010	11:29 AM			X								S	X				T		T	X		T	X	\square	1	x
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	ON SEPARATE RE	PORT																													
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Robert As Relinquist	sher <u>RCA (</u>	0 11/09/10 Date	3:1 Ti	1 PM me	Received by:						<u> </u>				Da	ate		Time)	Cust Sam	ody ody ple H by Sa by Cr	seal Ianc Imple Jurie	s on 3 De er/Cl r?	livere lient F	er(s) ed tep. '	(5) ? DH	Lr			N N N One S	ar
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Phone: 432-563-1800

Fax: 432-563-1713



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: Vales
Date/Time: 11-10-10 11:00
Lab ID #: 396755/ 396758
Initials: XIM

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 5		
7. Chain of custody signed when relinguished / received?	Tes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	(NTA)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	<u>).</u>	Cooler 5 No.	
Ibs 5.1 °C Ibs °C Ibs °C	lbs	°C	lbs	0°

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Taken:		
	process has been about and	out of temperature

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 396755

for Yates Petroleum Corporation

•

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

15-NOV-10



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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: **396755 Creek AL Federal # 19** 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 396755. 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. 396755 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 396755

Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-02.0	S	Nov-08-10 10:58	24 - 24 In	396755-001
Comp-02.5	S	Nov-08-10 11:17	30 - 30 In	396755-002
Comp-03.0	S	Nov-08-10 11:29	36 - 36 In	396755-003



Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 396755

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-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: 396755-001, -003, -002. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 831762, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 396755-002,396755-001.

Project Id: 30-015-32896

Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 396755

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



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

Report Date: 15-NOV-10

Project Manager: Brent Barron, II

	Lab Id:	396755-0	001	396755-0)02	396755-	003		
Analysis Paguestad	Field Id:	Comp-02	2.0	Comp-02	2.5	Comp-0	3.0		
Analysis Kequesieu	Depth:	24-24 I	n	30-30 I	30-30 In		ln		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Nov-08-10	10:58	Nov-08-10	11:17	Nov-08-10	11:29		
BTEX by EPA 8021	Extracted:	Nov-11-10	12:46	Nov-11-10	12:46	Nov-11-10	12:46		
	Analyzed:	Nov-11-10	19:41	Nov-11-10	21:06	Nov-11-10	22:10		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0.0257	ND	0.1034	ND	0.2062		
Toluene		0.1529	0.0514	2.622	0.2069	6.248	0.4124		
Ethylbenzene		0.9677	0.0257	14.89	0.1034	58.62	0.2062		 •
m,p-Xylenes		5.381	0.0514	28.02	0.2069	102.6	0.4124		
o-Xylene		1.659	0.0257	7.433	0.1034	33.28	0.2062		
Xylenes, Total		7.040	0.0257	35.45	0.1034	135.9	0.2062		
Total BTEX		8.161	0.0257	52.97	0.1034	200.7	0.2062		
Percent Moisture	Extracted:								
	Analyzed:	Nov-11-10	11:07	Nov-11-10	11:07	Nov-11-10	11:07		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		3.10	1.00	4.27	1.00	3.97	1.00		
TPH by SW 8015B	Extracted:	Nov-10-10	16:00	Nov-10-10	16:00	Nov-10-10	16:00		
Analyzed		Nov-11-10	09:14	Nov-11-10	09:45	Nov-11-10	10:15		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		142	15.4	265	15.7	979	15.7		
C10-C28 Diesel Range Hydrocarbons		720	15.4	778	15.7	2370	15.7		
Total TPH		862	15.4	1043	15.7	3349	15.7	-	

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



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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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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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	Company Address:	105 South 4th S	treet											·				ı	Proj€	ect L	.oc:	Eda	ly Co	ounty	/							
	City/State/Zip:	Artesia, NM 88	210																	PC)#:_	105	632									
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LAB # (lab use only)	FIEL	D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered Total #_of Containers	ruar #. 01 Containers Ire	HNO	HCI	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Studge	GW = Groundwater S=Soll/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8	TPH: TX 1005 TX 100	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb H	Volatiles Semivolatiles	PETEX 8021845030 or BTEX 8	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 2	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: Yales Date/Time: 11-10-10 11:00 Lab ID #: 396755/396758 Initials: X14

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Tes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No ·		. <u></u>
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	NIA	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No).	Cooler 5 No.	
lbs 5.1 °C lbs °C lbs °C	lbs	°C	lbs	°C

	Nonconformance	Documentation
Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Tak	en:	
Check all that apply:	□ Cooling process has begun shortly aft condition acceptable by NELAC □ Initial and Backup Temperature confin	er sampling event and out of temperature 5.5.8.3.1.a.1. π out of temperature conditions
	□ Client understands and would like to p	roceed with analysis

Analytical Report 394629

for Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

27-OCT-10



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27-OCT-10

NACCORDENT

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

Reference: XENCO Report No: **394629** Creek AL Federal # 19 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 394629. 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.

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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 394629



Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	Oct-21-10 10:14	6 - 6 In	394629-001
Comp-01.0	S	Oct-21-10 10:28	12 - 12 In	394629-002
Comp-01.5	S	Oct-21-10 10:42	18 - 18 In	394629-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 394629

Report Date: 27-OCT-10 Date Received: 10/22/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Project Id: 30-015-32896

Project Location: Eddy County

Contact: Robert Asher

Certificate of Analysis Summary 394629

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



Date Received in Lab: Fri Oct-22-10 01:15 pm

Report Date: 27-OCT-10

					Project Manager: Brent Barron, II
	Lab Id:	394629-001	394629-002	394629-003	
Anglusia Deguastad	Field Id:	Comp-00.5	Comp-01.0	Comp-01.5	
Analysis Requesieu	Depth:	6-6 In	12-12 In	18-18 In	
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Oct-21-10 10:14	Oct-21-10 10:28	Oct-21-10 10:42	
Anions in Soil By EPA 300.0	Extracted:				
	Analyzed:	Oct-25-10 08:30	Oct-25-10 08:30	Oct-25-10 08:30	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		343 8.72	437 8.74	736 17.4	
Percent Moisture	Extracted:				
	Analyzed:	Oct-23-10 09:05	Oct-23-10 09:05	Oct-23-10 09:05	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture		3.71 1.00	3.87 1.00	3.68 1.00	

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Brent Barron, II

Odessa Laboratory Manager

Final 1.000



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
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RL Reporting Limit

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* Outside XENCO's scope of NELAC Accreditation.

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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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

A Xenco Laboratories Company

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

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	Project Manager:	Robert Asher													<u>. </u>	_	Pr	ojec	t Na	me:	Cre	eek	AL	Fe	de	ral	<u>#1</u> 9	Э			
	Company Name	Yates Petroleum Corporati	ion								·		_			_		Pr	ojec	:t #:_	30-	<u>)15-</u>	328	96			•				
	Company Address:	105 South 4th Street						,					_			Project Loc: Eddy County															
	City/State/Zip:	Artesia, NM 88210												_					PC) #:	1056	632									
	Telephone No:	575-748-4217				Fax No:		575	-748	3-466	52		_		-	- F	Repor	t Fo	rmat	: [x	Stand	lard				RP			PDES	
	Sampler Signature:	Que	U	•		e-mail:		bo	ba	<u>@y</u>	ate	spe	etro	leu	m.c	om															
(lab use o	only) Tab	01																			тс	LP:	Analy	/ze ł	or:					┥ _┇ │	
ORDER	1#: 39462	7/394429						I	P	reser	vatio	n & #	of Co	ntaine	ers	M	atrix	8			тот	AL:	2	+-	0					48, 72	
LAB # (lab use only)	FIEL	D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	lce	HNO3	HCI	H ₂ SO ₄	Na.S.O.	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	Metale: As An Barrer Or Dh Lin S	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 4	Standard TAT
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	Corr	1p-01.5	18.	18	10/21/2010	10:42 AM			4	\rightarrow	+	+	+	+	+		5	<u> </u> ^−	\vdash	+	+	╉	+	┼─		\vdash		쒸	+-	╉─┼	4
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<u> </u>	ON SEPARATE REI	PORT				<u></u>		1						1		Ĺ			_		1										
Special I	nstructions:	1PH 8015M, BIE	-X 802	218 &	Chlorides. A	ALL results in	mg	/ĸg.	Ir	ank	yo.	u.								Sam	ple (Conta	iners	ienta inta	s: act?			6	ð	N	
Relinguish	ned by:	Date	Tir	ne	Received by:									Т-	Da	te		Time		VOC Labe	s Fri Is or	ee of 1 con	Hea taine	dspa r(s)	ce?			g	3	N N	
Robert As	ther RCALLA	RC 10/21/10	3:10	PM	-				_											Custo Custo	ody ody	seals seals	on c on c	onta oole	iner(r(s)	(s)		0 0	א כ	N N	
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12600 West I-20 East

Odessa, Texas 79765



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:	Vates .	Petrole	eum	<u> </u>
Date/Time	: 10/22	10 13:1	5	
Lab ID # :		39407	1394629	
Initials:	54			

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	(Yèş	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Tes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(N/A	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No.	
Ibs 5 (0 °C Ibs °C Ibs	°C ibs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Tak	en:		
Check all that apply:	□ Cooling process has begun shortly after samp condition acceptable by NELAC 5.5.8.3.1	bling event and out of temperature	
	□ Initial and Backup Temperature confirm out of □ Client understands and would like to proceed	temperature conditions with analysis	

Analytical Report 394627

for Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

27-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)



27-OCT-10



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

Reference: XENCO Report No: **394627** Creek AL Federal # 19 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 394627. 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. 394627 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,

BOR

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 394627

Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	Oct-21-10 10:14	6 - 6 In	394627-001
Comp-01.0	S	Oct-21-10 10:28	12 - 12 In	394627-002
Comp-01.5	S	Oct-21-10 10:42	18 - 18 In	394627-003





Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 394627

Report Date: 27-OCT-10 Date Received: 10/22/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-828861 TPH by SW 8015B SW8015B_NM

Batch 828861, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 394627-003.

Batch: LBA-829303 BTEX by EPA 8021 SW8021BM

Batch 829303, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 394627-003 D,394627-002,394627-003,394627-001. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 394627-003,394627-002.

Project Id: 30-015-32896

Project Location: Eddy County

Contact: Robert Asher

Certificate of Analysis Summary 394627

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



Date Received in Lab: Fri Oct-22-10 01:15 pm

Report Date: 27-OCT-10

Project Manager: Brent Barron, II

	Lab Id:	394627-00	01	394627-0	02	394627-0	003		
Anglusis Pagnastad	Field Id:	Comp-00.	.5	Comp-01	.0	Comp-01	1.5		
Analysis Kequested	Depth:	6-6 In		12-12 I	n	18-18 I	n		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Oct-21-10 1	0:14	Oct-21-10 1	0:28	Oct-21-10	10:42		
BTEX by EPA 8021	Extracted:	Oct-26-10 1	5:20	Oct-26-10 1	5:20	Oct-26-10	15:20		
	Analyzed:	Oct-27-10 0	5:10	Oct-27-10 (6:14	Oct-27-10 (07:17		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND (0.0514	ND	0.0515	ND	0.0520		
Toluene		ND (0.1028	0.2374	0.1030	0.1534	0.1040		
Ethylbenzene		0.3188 (0.0514	3.894	0.0515	4.587	0.0520		
m,p-Xylenes		1.431 (0.1028	8.835	0.1030	9.794	0.1040		
o-Xylene		0.1285 0	0.0514	0.3780	0.0515	0.7214	0.0520		
Xylenes, Total		1.560 (0.0514	9.213	0.0515	10.515	0.0520		
Total BTEX		1.878 (0.0514	13.344	0.0515	15.256	0.0520		
Percent Moisture	Extracted:								
	Analyzed:	Oct-23-10 0	9:05	Oct-23-10 (9:05	Oct-23-10 (09:05		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		3.71	1.00	3.87	1.00	3.68	1.00		
TPH by SW 8015B	Extracted:	Oct-22-10 1	3:30	Oct-22-10 1	3:30	Oct-22-10	13:30		
	Analyzed:	Oct-23-10 0	0:31	Oct-25-10 (9:06	Oct-25-10 (09:35		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		95.8	15.6	402	15.6	389	15.6		
C10-C28 Diesel Range Hydrocarbons		670	15.6	2100	15.6	1950	15.6		
Total TPH		766	15.6	2502	15.6	2339	15.6		

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



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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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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A Xenco Laboratories Company 12600 West I-20 East. Phone: 432-563-1800 Odessa, Texas 79765 Fax: 432-563-1713 Project Name: Creek AL Federal #19 Project Manager: Robert Asher **Company Name** Project #: 30-015-32896 Yates Petroleum Corporation Company Address: 105 South 4th Street Project Loc: Eddy County City/State/Zip: PO #: 105632 Artesia, NM 88210 Report Format: X Standard TRRP NPDES Telephone No: 575-748-4217 Fax No: 575-748-4662 2 boba@yatespetroleum.com Sampler Signature: e-mail: Analyze For: TCLP: (lab use only) 01 TAB 72 hr TOTAL 314629 394627 ORDER #: Preservation & # of Containers Matrix ŧ, Se BTEX 80218/5030 or BTEX 8260 ġ 006 Metals: As Ag Ba Cd Cr Pb Hg 24, Alkalinity) S=Soil/Solid ule) SL=Studge ¥ Na, K) (yino ΣS RUSH TAT (Pre-Sched Specify Beginning Depth Total #. of Containers 801 Time Sampled Sampled # (lab use Ending Depth Cations (Ca, Mg, Anions (CI, SO4, SAR / ESP / CEC Specify) DW≍Drinking Water GW = Groundwater TX 1005 Semivolatiles ield Filtered 418.1 Chlorides Na₂S₂O₃ Volatites Other (§ R.M. Date H₂SO₄ NaOH HNO3 None ТРН: ΞЪΗ AB Ŷ ľo'z RCI <u>6</u> FIELD CODE OI 6" 6" S Х Х Х Comp-00.5 10/21/2010 10:14 AM Х 0Z Comp-01.0 12" 12" 10/21/2010 10:28 AM Х S Х Х Х 02 х Х Comp-01.5 18" 18" 10:42 AM S Х Х 10/21/2010 PLEASE PUT CHLORIDES ON SEPARATE REPORT Special Instructions: TPH 8015M, BTEX 8021B & Chlorides. ALL results in mg/kg. Thank you. Laboratory Comments: Sample Containers Intact? N VOCs Free of Headspace? Ν Date Date Time Labels on container(s) N Relinguished by: Time Received by Custody seals on container(s) Ν 10/21/10 3:10 PM Custody seals on cooler(s) Ν Robert Asher Date Date Time Sample Hand Delivered Time Relinguished by: Received by: N by Sampler/Client Rep. ? Received by ELOT: AIT D HOULA by Courier? UPS DHL FedÈ Lone Star Date Time Relinquished by: Date Time Temperature Upon Receipt: °C 13:15 5. DIZZIN ÷

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XENCO Laboratories

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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	PCE	roley	m	
Date/Time:	10/22	110	13.15		
Lab ID # :	•	39140	R7 /	39461	19
Initials:	54				

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yèş	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(NA	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	o.	Cooler 5 No.	
Ibs 5 0 °C Ibs °C Ibs °	C Ibs	°c	lbs	°C

Nonconformance Documentation

□ Client understands and would like to proceed with analysis

Analytical Report 389693

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

17-SEP-10



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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 (AALII), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-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)



17-SEP-10



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

Reference: XENCO Report No: **389693** Creek AL Federal # 19 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 389693. 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. 389693 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 389693

Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	Sep-13-10 10:57	6 - 6 In	389693-001
Comp-01.0	S	Sep-13-10 11:11	12 - 12 In	389693-002
Comp-01.5	S	Sep-13-10 11:27	18 - 18 In	389693-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 389693

Report Date: 17-SEP-10 Date Received: 09/14/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-823016 Percent Moisture None

Batch: LBA-823019 Anions in Soil By EPA 300.0 None

Project Id: 30-015-32896

Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 389693

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



Date Received in Lab: Tue Sep-14-10 10:10 am

Report Date: 17-SEP-10

Project Manager: Brent Barron, II

	Lab Id:	389693-0	001	389693-0	02	389693-0	03		
Anglusis Deguested	Field Id:	Comp-0	0.5	Comp-01	.0	Comp-01	.5		
Analysis Requested	Depth:	6-6 In		12-12 In	n	18-18 In	n		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Sep-13-10	10:57	Sep-13-10 1	1:11	Sep-13-10 1	11:27		
Anions in Soil By EPA 300.0	Extracted:								
	Analyzed:	Sep-14-10	17:30	Sep-14-10 1	7:51	Sep-14-10 1	18:12		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		514	8.67	396	8.70	556	8.77		
Percent Moisture	Extracted:								
	Analyzed:	Sep-14-10	17:00	Sep-14-10 1	7:00	Sep-14-10 1	17:00		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		3.15	1.00	3.42	1.00	4.22	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

Final 1.000



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to 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.
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BRL Below Reporting Limit.

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- MDL Method Detection Limit
- PQL Practical Quantitation Limit
- * Outside XENCO's scope of NELAC Accreditation.

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	Project Manager:	Robert Asher					ļ — •	:							_	Pro	ojec	t Nai	me:_	Cr	eek	AL	<u> </u>	ede	ral	#1	9			
	Company Name	Yates Petroleum Corpora	tion		<u></u>			;							_		Pr	ojec	t #:_	30-	015-	328	96							
	Company Address:	105 South 4th Street													_	F	roje	ect L	oc:	Edd	y Co	unty								
	City/State/Zip:	Artesia, NM 88210					,	<u>د</u>	_			_						PC)#:	105	632									
	Telephone No:	575-748-4217)			Fax No:	5	75-7	48-4	662					_ 1	Report	t Fo	rmat	:	x	Stan	dard] T R	≀R₽			NPDE	ES
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LAB # (lab use only)	FIEL	D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered Total & of Containers	10161 T. UI CONTRANTELO ICR	HNO3	HCI	H ₂ SO4	NaOH	Na ₂ S ₂ O ₃	Note Other (Specify)	DW∞Drinking Water SL∈Siudge	GW ≑ Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb H Vrdatilae	Semivolatiles	BTEX 8021BV5030 or BTEX 8	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedula) 2	Standard TAT
01	Cor	mp-00.5	6"	6"	9/13/2010	10:57 AM		Ι×								S	х							x			X			x
or	Cor	np-01.0	12"	12"	9/13/2010	11:11 AM		X								S	х							X			X			<u> </u>
03	Cor	np-01.5	18"	18"	9/13/2010	11:27 AM		<u> </u>	4_			ļ				s	X				_		\downarrow	×	\perp	\bot	X	$ \downarrow \downarrow $		×
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XENCO Laboratories

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

Phoenix, San Antonio, Tampa

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

Prelogin / Nonconformance Report - Sample Log-In

Client:	ates Petrol	PULM
Date/Time:	9.14.10	10:10
Lab ID # :	3896901	309693
Initials:	Æ	

Sample Receipt Checklist

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

Nonconformance Documentation

Contact:

Contacted by:

Date/Time:

Regarding:

Corrective Action Taken:

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

Client understands and would like to proceed with analysis

Analytical Report 389690

for Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

17-SEP-10



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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)



17-SEP-10



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

Reference: XENCO Report No: **389690** Creek AL Federal # 19 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 389690. 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. 389690 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 389690

Yates Petroleum Corporation, Artesia, NM

Creek AL Federal # 19

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	Sep-13-10 10:57	6 - 6 In	389690-001
Comp-01.0	S	Sep-13-10 11:11	12 - 12 In	389690-002
Comp-01.5	S	Sep-13-10 11:27	18 - 18 In	389690-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Creek AL Federal # 19



 Project ID:
 30-015-32896

 Work Order Number:
 389690

Report Date: 17-SEP-10 Date Received: 09/14/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-823016 Percent Moisture None

Batch: LBA-823024 TPH by SW 8015B None

Batch: LBA-823318 BTEX by EPA 8021 SW8021BM

Batch 823318, Benzene, Toluene recovered below QC limits in the Matrix Spike. Samples affected are: 389690-001, -002. The Laboratory Control Sample for Toluene, Benzene is within laboratory Control Limits

SW8021BM

Batch 823318, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 389690-002,389690-001. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 389690-002.

Batch: LBA-823461 BTEX by EPA 8021 SW8021BM

Batch 823461, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 389690-003.

Project Id: 30-015-32896

Contact: Robert Asher

Project Location: Eddy County

Certificate of Analysis Summary 389690

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



Date Received in Lab: Tue Sep-14-10 10:10 am

Report Date: 17-SEP-10

Project Manager: Brent Barron, II

	Lab Id:	389690-0	001	389690-0	02	389690-0	003		
Anglusis Pognostad	Field Id:	Comp-00	0.5	Comp-01	.0	Comp-0	1.5		
Analysis Kequesieu	Depth:	6-6 In		12-12 In	n	18-18 I	'n		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Sep-13-10	10:57	Sep-13-10 1	1:11	Sep-13-10	11:27		
BTEX by EPA 8021	Extracted:	Sep-14-10	10:30	Sep-14-10 1	10:30	Sep-15-10	09:00		
	Analyzed:	Sep-15-102	20:42	Sep-15-10 1	5:40	Sep-15-10	22:51		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		0.1283	0.1026	0.2296	0.1025	0.2401	0.1044		
Toluene		7.709	0.2053	12.07	0.2050	18.54	0.2088		
Ethylbenzene		8.698	0.1026	8.696	0.1025	11.35	0.1044		
m,p-Xylenes		19.77	0.2053	22.68	0.2050	40.10	0.2088		
o-Xylenc		11.16	0.1026	13.43	0.1025	16.26	0.1044		
Xylencs, Total		30.93	0.1026	36.11	0.1025	56.36	0.1044		
Total BTEX		47.47	0.1026	57.11	0.1025	86.49	0.1044		
Percent Moisture	Extracted:								
	Analyzed:	Sep-14-10	17:00	Sep-14-10 I	17:00	Sep-14-10	17:00		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		3.15	1.00	3.42	1.00	4.22	1.00		
TPH by SW 8015B	Extracted:	Sep-14-10	10:40	Sep-14-10 1	10:40	Sep-14-10	10:40		
	Analyzed:	Sep-14-10	14:55	Sep-14-10 1	15:27	Sep-14-10	15:58		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		357	15.4	715	15.5	765	15.7		
C10-C28 Diesel Range Hydrocarbons		1610	15.4	2250	15.5	1890	15.7		
Total TPH		1967	15.4	2965	15.5	2655	15.7		

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Brent Barron, II

Odessa Laboratory Manager

Page 5 of 18

Final 1.000



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	Project Manager:	Robert Asher					! 										Pro	ojec	t Na	me:	Cı	ee	k A		Fer	der	al	#1	9				
	Company Name	Yates Petroleum Corpora	tion															Pr	roje(:t #:	30	-01	5-32	289	<u> </u>								
	Company Address:	105 South 4th Street				,	[F	Proje	əct L	.oc:	Ede	dy C	oun	ty									
	City/State/Zip:	Artesia, NM 88210																	P) #:	105	5632											
	Telephone No:	575-748-4217	<u> </u>			Fax No:	5	75-7	748-4	662						R	epor	t Fo	rma	t:	×	Sta	nda	rd			TR	RP			NPC	ES	
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ORDER	x#: 389690	1389693							Pres	serva	ation 8	5 # of	Conta	ainers		Ма	trix	5	<u>г</u>		то	TAL:	Se		\square							48, 72	
C LAB # (lab use only)	FIEL	.р СОРЕ	ଡ଼୍ର Beginning Depth	og Ending Depth	Date Sampled Date Sampled 0/13/2010	Sampled Lime 10:57 AM	Field Filtered		A HNO3	HCI	H ₂ SO4	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Studge	V/ - Groundwarer 5=500/5010 NP=Non-Potable Specify Other	X TPH: 418.1 8015M 80	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anlons (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metais: As Ag Ba Cd Cr Pb Hg	Votatiles	Semivolatiles	× BTEX 8021B/5030 or BTEX 82	RCI	N.O.R.M.	X Chlorides			RUSH TAT (Pre-Schedule) 24	× Standard TAT
or	Cor	np-01.0	12"	12"	9/13/2010	11:11 AM)	$\langle $							Ę	3	x								x	\Box		x			\square	X
	Cor	np-01.5	18"	18"	9/13/2010	11:27 AM										3	<u>S</u>	×								X			×				<u>×</u>
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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	Petrole	'INM	
Date/Time:	9.14	$\{\cdot \mid O$	10:10	
Lab ID # :	389	690 /	309693	
Initials:		AE		

Sample Receipt Checklist

1. Samples on ice?	Blue	e	Water	No	
2. Shipping container in good condition?	Yés	D	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	5	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	<u>s</u>	(No)		
7. Chain of custody signed when relinquished / received?	Yes	2	No		
8. Chain of custody agrees with sample label(s)?	Yes	5	No		
9. Container labels legible and intact?	(Yes	5)	No		
10. Sample matrix / properties agree with chain of custody?	Yes	5	No		
11. Samples in proper container / bottle?	(Yes	5	No		
12. Samples properly preserved?	Yes	5	No	N/A	
13. Sample container intact?	Yes	5	No		
14. Sufficient sample amount for indicated test(s)?	Yes	\mathbf{i}	No		
15. All samples received within sufficient hold time?	Yes	$\overline{\mathbf{s}}$	No		· · ·
16. Subcontract of sample(s)?	Yes	5	No	(N/A)	
17. VOC sample have zero head space?	Nes	5)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler	4 No	».	Cooler 5 No.	
lbs 3 0°c lbs °c lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:

Contacted by:_____

Date/Time:_____

Regarding:

Corrective Action Taken:

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

Client understands and would like to proceed with analysis