Bratcher, Mike, EMNRD

From:	Amber Cannon [ACannon@yatespetroleum.com]
Sent:	Monday, December 05, 2011 11:37 AM
Το:	Bratcher, Mike, EMNRD
Subject:	FW: Cigarillo SWD #1 (2RP-849)
Attachments:	CigarilloSWD1_SampleDiagram&SampleTableSummary.pdf CigarilloSWD1_426978_ver_1_
	000.pdf; CigarilloSWD1_426981_ver_1_000.pdf; CigarilloSWD1_430158_ver_1_000.pdf;
	CigarilloSWD1_430159_ver_1_000.pdf; CigarilloSWD1_432252_ver_1_000.pdf

Mike,

Please find attached a site diagram and a sample table summary (along with analytical results from the laboratory) for the Cigarillo SWD #1 release that occurred 7/24/2011 (2RP-849).

Based on the analytical results, Yates Petroleum Corporation would like to propose the following action for this location:

Scrape 6" from the entire spill area including Sections 1 (yellow), 2 (pink), 3 (orange) and 4 (green). This will eliminate the chlorides above 15,000 that came back from analytical report 426981. The other analytical reports show a decrease in the chloride levels in all four sections.

Yates realizes that section 1 (yellow) still shows chlorides to be over 5,000 at 1'. 2' and 3' (analytical report 430159); however we feel there is a significant safety hazard to clean-up contractors as there are high voltage electrical panels and lines that run through this section. This section is also on the facility pad. If allowed to leave these numbers in place, we would address these chlorides when the well is plugged and abandoned in the future.

Once the 6" is excavated from the location and disposed of at an NMOCD approved facility, Yates Petroleum would then submit a Final C-141 to your office requesting backfill and closure.

Thank you for your time,

Amber Cannon

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

Cigarillo SWD #1

Analytical/Report- 426981/& 426978	Sample/Area -	Sample:Date	Sample-Type-	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-#1	Release Area	8/30/2011	Comp/Shovel	Surface	0.0270	30.7	1500	1530	27,400
Comp #2	Release Area	8/30/2011	Comp/Shovel	Surface	ND	ND	39 3	39.3	15,700
Comp-#3	Release Area	8/30/2011	Comp/Shovel	Surface	ND	ND	802	802	17,700
Comp-#4	Release Area	8/30/2011	Comp/Shovel	Surface	ND	ND	745	745	15,300
Analytical Report- 430158 & 430159	Sample/Area	Sample Date.	Sample Type	. Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab 1-1	Release Area	10/24/2011	Grab/Backhoe	1'	ND	ND	ND	ND	7,280
Grab 1-2	Release Area	10/24/2011	Grab/Backhoe	2'	ND	ND	ND	ND	6,510
Grab 1-3	Release Area	10/24/2011	Grab/Backhoe	3'	ND	ND	ND	ND	5,570
Grab 2-1	Release Area	10/24/2011	Grab/Backhoe	1'					2,700
Grab 2-2	Release Area	10/24/2011	Grab/Backhoe	2'				· · · ·	3,770
Grab 2-3	Release Area	10/24/2011	Grab/Backhoe	3'				ې د .	3,830
Grab 3-1	Release Area	10/24/2011	Grab/Backhoe	1'					1,690
🦗 🌽 (Grab 3-2)	Release Area	10/24/2011	Grab/Backhoe	2'					2,640
Grab 3-3	Release Area	10/24/2011	Grab/Backhoe	3'					2,220
Grab 4-1	Release Area	10/24/2011	Grab/Backhoe	1'					1,650
Grab 4-2	Release Area	10/24/2011	Grab/Backhoe	2'					1,100
Grab 4-3	Release Area	10/24/2011	Grab/Backhoe	3'			н - -	به الم الم	486
Analytical Report: 432252	Sample;Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab 1-1	Release Area	11/2/2011	Grab/Backhoe	4'					4,730
Grab 1-2	Release Area	11/2/2011	Grab/Backhoe	5'					4,890
Grab 1-3	Release Area	11/2/2011	Grab/Backhoe	6'					4,890
Grab 2-1	Release Area	11/2/2011	Grab/Backhoe	4'					3,890
Grab 2-2 - Crab	Release Area	11/2/2011	Grab/Backhoe	5'					1,720
Grabi2-3	Release Area	11/2/2011	Grab/Backhoe	6'					1,270
Grab 3-1	Release Area	11/23/2011	Grab/Backhoe	4'					443
Grab 3-2	Release Area	11/23/2011	Grab/Backhoe	5'				_	497
Grab 3-3	Release Area	11/23/2011	Grab/Backhoe	6'					1,620

•

....

. .

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 67', Section 35-23S-27E, per NMOSE).

All results are ppm.Chlorides for documentation. X - Sample Points

Released: 380 B/PW; Recovered: 367 B/PW. Release Date: 7/24/2011





Analytical Report 430158

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Cigarillo SWD # 1

30-015-21643

01-NOV-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

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

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00989): Arizona (AZ0758)



01-NOV-11



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

Reference: XENCO Report No: 430158 Cigarillo SWD # 1 Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 430158. 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. 430158 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,

ton?

Brent Barron II Odessa Laboratory Manager

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





Sample Cross Reference 430158

Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 1-1	S	10-24-11 09:30	1 - 1 ft	430158-001
Grab 1-2	S	10-24-11 09:35	2 - 2 ft	430158-002
Grab 1-3	S	10-24-11 09:40	3 - 3 ft	430158-003



Client Name: Yates Petroleum Corporation Project Name: Cigarillo SWD # 1



 Project ID:
 30-015-21643

 Work Order Number:
 430158

Report Date: 01-NOV-11 Date Received: 10/25/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-873287 BTEX by EPA 8021B SW8021BM

Batch 873287, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 430158-003, -001, -002. The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

Batch: LBA-873378 TPH By SW8015B Mod SW8015B NM

Batch 873378, C6-C10 Gasoline Range Hydrocarbons recovered slightly below QC limits in the Blank Spike and Duplicate.

Samples affected are: 430158-003, -001, -002. This is most likely due to an analyst spiking error. The Matrix Spike sample for this batch was within QC limits, therefore the data are reported as analyzed.

SW8015B_NM

Batch 873378, o-Terphenyl recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 613303-1-BSD.

1-Chlorooctane, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 430158-003 S,430158-003 SD.



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 430158

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD # 1



Date Received in Lab: Tue Oct-25-11 08 40 am

Report Date: 01-NOV-11

Project Manager: Brent Barron II

	Lab Id:	430158-6	001	430158-	002	430158-	003		
Analysis Pagnastad	Field Id:	Grab 1-	-1	Grab 1	-2	Grab 1	-3		
Analysis Kequesieu	Depth:	1-1 ft		2-2 ft		3-3 ft			
	Matrix:	SOIL	SOIL			SOIL			
	Sampled:	Oct-24-11 09 30		Oct-24-11	09:35	Oct-24-11	09 40		
BTEX by EPA 8021B	Extracted:	Oct-26-11 15 45		Oct-26-11	15 45	Oct-26-11	15 45	 	
	Analyzed:	Oct-26-11	22.55	Oct-26-11	23.18	Oct-26-11	23.41		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0 00111	ND	0 00109	ND	0 00110		
Toluene		ND	0 00223	ND	0 00218	ND	0 00220		
Ethylbenzene		ND	0 00111	ND	0 00109	ND	0 00110		
m_p-Xylenes		ND	0 00223	ND	0.00218	ND	0 00220		
o-Xylene		ND	0 00111	ND	0 00109	ND	0 00110		
Total Xylenes		ND	0 00111	ND	0 00109	ND	0 00110		
Total BTEX		ND	0 00111	ND	0 00109	ND	0 00110		
Percent Moisture	Extracted:							 	
·	Analyzed:	Oct-25-11	14:35	Oct-25-11	14 35	Oct-25-11 14:35			
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		10 3	1 00	9 1 5	1.00	9 62	1.00		
TPH By SW8015B Mod	Extracted:	Oct-27-11	15 45	Oct-27-11	15 45	Oct-27-11	15:45		
	Analyzed:	Oct-27-11	20.24	Oct-27-11 2	20 56	Oct-27-11	21 27		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		ND	16.7	ND	164	ND	16.6		
C10-C28 Diesel Range Hydrocarbons		ND	16 7	ND	164	ND	16.6	 	
Total TPH		ND	16.7	ND	164	ND	16.6		

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

Final 1 000



Flagging Criteria

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

BRL Below Reporting Limit.

RL Reporting Limit		
MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation
DL Method Detection Limit		
NC Non-Calculable		
+ Outside XENCO's scope of NEL	AC Accreditation. ^ NELAC	or State program does not offer Accreditation at this time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

	Phone	Fax
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
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave. Phoenix, AZ 85040	(602) 437-0330	



Project Name: Cigarillo SWD # 1

Vork Orders : 430158 Lab Batch #: 873287	, Sample: 430158-001 / SMP	Project ID: 30-015-21643 MP Batch: 1 Matrix:Soil								
Units: mg/kg	Date Analyzed: 10/26/11 22.55	SU	RROGATE RI	ECOVERY	STUDY					
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1,4-Difluorobenzene		0.0272	0 0300	91	80-120					
4-Bromofluorobenzene		0 0259	0 0300	86	80-120	ļ				
Lab Batch #: 873287	Sample: 430158-002 / SMP	P Batch: I Matrix: Soil								
Units: mg/kg	Date Analyzed: 10/26/11 23:18	SU	RROGATE RI	ECOVERY	STUDY					
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluoiobenzene		0 0273	0 0300	91	80-120					
4-Bromofluorobenzene		0.0276	0.0300	92	80-120					
Lab Batch #: 873287	Sample: 430158-003 / SMP	Batel	h: ¹ Matrix	: Soil	·					
Units: mg/kg	Date Analyzed: 10/26/11 23.41	SURROGATE RECOVERY STUDY								
BTEX	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluorobenzene		0 0270	0 0300	90	80-120					
4-Bromofluorobenzene		0.0267	0 0300	89	80-120	·				
Lab Batch #: 873378	Sample: 430158-001 / SMP	Bate	h: ¹ Matrix	:Soil	·					
Units: mg/kg	Date Analyzed: 10/27/11 20:24	SU	RROGATE RI	ECOVERY	STUDY					
ТРН В	sy SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[U]						
I-Chlorooctane		103	99.6	103	70-135					
0-1 erpnenyi		48.3	49.8	97	/0-135					
Lab Batch #: 873378	Sample: 430158-002 / SMP г	Batel	h: 1 Matrix	Soil	CTUNY					
Units: mg/kg	Date Analyzed: 10/27/11 20:56	<u> </u>	KRUGATE RI							
ТРН В	sy SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		103	99 5	104	70-135					
o-Terphenyl		49 0	49 8	98	70-135					

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes



Project Name: Cigarillo SWD # 1

Vork Orders : 430158	, Sample: 430158-003 / SMP	Patek	Project II): 30-015-21	643					
Units: mg/kg	Date Analyzed: 10/27/11 21:27	SUI	RROGATE RI	ECOVERYS	STUDY					
ТРН В	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1-Chlorooctane		95 3	99.9	95	70-135					
o-Terphenyl		44 3	50.0	89	70-135					
Lab Batch #: 873287	Sample: 613245-1-BLK / B	BLK Batch: 1 Matrix: Solid								
Units: mg/kg	Date Analyzed: 10/26/11 22.33	SU	RROGATE RI	ECOVERYS	STUDY					
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1 4-Difluorobenzene	Anarytes	0.0278	0.0300	03	80.120					
4-Bromofluorobenzene		0.0278	0.0300	86	80-120					
L	Samely 612202 1 PLK / P		1 M. 4	<u> </u>						
Lab Batch #: 075578	Data Analysish 10/27/11 10:52	SUI	REACATE RE	COVERV S	STUDY					
	Date Analyzed: 10/27/11 19:53									
ТРН В 	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
I-Chlorooctane		75 7	99.9	76	70-135					
o-Terphenyl		35 3	50.0	71	70-135					
Lab Batch #: 873287	Sample: 613245-1-BKS / B	KS Batch	h: 1 Matrix	Solid	11					
Units: mg/kg	Date Analyzed: 10/26/11 21:02	SU	RROGATE RI	ECOVERY S	STUDY					
BTEX	X by EPA 8021B.	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1,4-Difluorobenzene		0.0280	0.0300	93	80-120					
4-Bromofluorobenzene		0.0200	0 0500							
		0 0279	0 0300	93	80-120					
Lab Batch #: 873378	Sample: 613303-1-BKS / B	0 0279 KS Batch	0 0300 h: 1 Matrix	93 Solid	80-120					
Lab Batch #: 873378 Units: mg/kg	Sample: 613303-1-BKS / B Date Analyzed: 10/27/11 18:51	0 0230 0 0279 KS Batch SU	0 0300 n: 1 Matrix RROGATE RI	93 Solid	80-120					
Lab Batch #: 873378 Units: mg/kg	Sample: 613303-1-BKS / B Date Analyzed: 10/27/11 18:51 Sy SW8015B Mod	0 0230 0 0279 KS Batch SU Amount Found [A]	0 0300 n: 1 Matrix RROGATE RI True Amount [B]	93 Solid ECOVERY S Recovery %R [D]	80-120 STUDY Control Limits %R	Flags				
Lab Batch #: 873378 Units: mg/kg	Sample: 613303-1-BKS / B Date Analyzed: 10/27/11 18:51 Sy SW8015B Mod Analytes	0 0230 0 0279 KS Batch SU Amount Found [A]	0 0300 h: 1 Matrix RROGATE RI True Amount [B]	93 :Solid ECOVERY S Recovery %R [D]	80-120 STUDY Control Limits %R	Flags				

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

*** Poor recoveries due to dilution

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



1

Form 2 - Surrogate Recoveries

Project Name: Cigarillo SWD # 1

/ork Orders : 430158	, ,		Project II	D: 30-015-21	643	
Lab Batch #: 8/328/	Sample: 013245-1-88078	SD Batch	h: 1 Matrix:	Solid	STUDY	
Units: mg/kg	Date Analyzed: 10/26/11 21:24	L	KRUGATE NI			
BTEX	ζ by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	1	1	[D]		·
1,4-Difluorobenzene		0.0286	0.0300	95	80-120	
4-Biomofluorobenzene		0.0275	0.0300	92	80-120	
Lab Batch #: 873378	Sample: 613303-1-BSD / B	SD Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 10/27/11 19:22	SU	RROGATE RI	ECOVERY S	STUDY	
ТРН В	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		83.2	99.8	83	70-135	
o-Terphenyl		34 2	49.9	69	70-135	*
Lah Batch #: 873287		S Batc'	b. 1 Matrix	·Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 10/27/11 02:43	SU	RROGATE RI	ECOVERY	STUDY	
BTE	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1.4-Difluorobenzene	Anarytes	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene		0 0280	0.0300	93	80-120	
Lab Batch #: 873378	Sample: 430158-003 S / MS	S Bate	h: ¹ Matrix	:Soil	<u>. </u>	
Units: mg/kg	Date Analyzed: 10/27/11 21:58	SU	RROGATE RI	ECOVERY	STUDY	
ТРН В	5y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		204	100	204	70-135	*
o-Terphenyl		87.1	50.2	174	70-135	*
Lab Batch #: 873287	Sample: 430158-001 SD / N	MSD Bate	h: 1 Matrix	:Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 10/27/11 03.06	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0 0295	0 0300	98	80-120	
4-Bromofluorobenzene		0 0284	0.0300	95	80-120	

* Surrogate outside of Laboratory QC limits

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

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



Project Name: Cigarillo SWD # 1

Work Orders : 430158 Lab Batch #: 873378 Units: mg/kg	, Sample: 430158-003 SD / M Date Analyzed: 10/27/11 22:31	Project ID: 30-015-21643 158-003 SD / MSD Batch: 1 Matrix: Soil 27/11 22:31 SURROGATE RECOVERY STUDY					
ТРН Е	By SW8015B Mod Analytes	Amount Found [A]	AmountTrueFoundAmountReco[A][B]%[][]			Flags	
1-Chlorooctane		196	99.8	196	70-135	*	
o-Terphenyl		85 4	49 9	171	70-135	*	

* Surrogate outside of Laboratory QC limits

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

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





Project Name: Cigarillo SWD # 1

Work Order #: 430158	Project ID: 30-015-21643										
Analyst: ASA	Da	ate Prepai	red: 10/26/201	11			Date A	nalyzed:]	0/26/2011		
Lab Batch ID: 873287 Sample: 613245-1-1	3KS	Bate	h #: 1			Matrix: Solid					
Units: mg/kg		BLAN	K /BLANK S	SPIKE / F	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	γ	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00100	0 100	0 105	105	0 100	0 103	103	2	70-130	35	
Toluene	<0 00200	0 100	0 107	107	0 100	0 105	105	2	70-130	35	
Ethylbenzene	<0 00100	0 100	0111	111	0 100	0 109	109	2	71-129	35	
m_p-Xylenes	<0 00200	0 200	0 222	111	0.200	0 219	110	1	70-135	35	
o-Xylene	<0 00100	0 100	0 1 1 0	110	0 100	0 109	109	1	71-133	35	
Analyst: ASA	Da	ate Prepar	ed: 10/27/201	1	Date Analyzed: 10/27/2011						
Lab Batch ID: 873378 Sample: 613303-1-1	3KS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	ICATE	RECOVE	ERY STUD	Y	
TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15 0	998	640	64	998	626	63	2	70-135	35	L
C10-C28 Diesel Range Hydrocarbons	<15 0	998	749	75	998	723	72	4	70-135	35	

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



Project Name: Cigarillo SWD #1



Work Order #: 430158						Project I	D: 30-015	-21643			
Lab Batch ID: 873287 Date Analyzed: 10/27/2011	QC- Sample ID: Date Prepared:	430158 10/26/2	-001 S 011	Ba An	tch #: alyst:	l Matri ASA	x: Soil				
Reporting Units: mg/kg		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	<0 00111	0 111	0 0744	67	0 1 1 1	0 0768	69	3	70-130	35	Х
Toluene	<0 00222	0 111	0.0700	63	0 111	0 0719	65	3	70-130	35	X
Ethylbenzene	< 0.00111	0 111	0 0662	60	0111	0.0694	63	5	71-129	35	Х
m_p-Xylenes	<0 00222	0 222	0 126	57	0 222	0 133	60	5	70-135	35	Х
o-Xylene	<0.00111	0 111	0.0589	53	0 111	0 0629	57	7	71-133	35	Х
Lab Batch ID: 873378 Date Analyzed: 10/27/2011 Penarting Units: mg/kg	QC- Sample ID: Date Prepared:	430158	-003 S 011	Ba An:	tch #: alyst:	l Matrix ASA	x: Soil				
Keporting Units. mg/kg		M	ATRIX SPIK	E / MATI	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH By SW8015B Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<16 7	1110	1060	95	1100	996	91	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<16 7	1110	1070	96	1100	1000	91	7	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*[(C-F)/(C+F)] Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E





Project Name: Cigarillo SWD # 1

Work Order #: 430158

Lab Batch #: 873151			Project I	D: ³⁰⁻⁰¹⁵⁻²	1643
Date Analyzed: 10/25/2011 10.10	Date Prepared: 10/25/2011	Ana	lyst: BRB		
QC- Sample ID: 430118-001 D	Batch #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]		1	
Percent Moisture	1 75	1 81	3	20	

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

XE	NCO-Envi	ronment	al La	ab	0	f Texa	S			12 0	2600 des:	We sa,	C) est I- Texa	H <i>AI</i> -20 E as 79	N O East 9765	F C	US	ΤΟDΥ	RE	COR	RD A	AND) AN	IAL Phoi Fax	YS I ne: ::	IS R 432 432	₹EG 2-56 2-56)UE 3-18 3-17	S <i>T</i> :00 '13				
	Project Manager	Amber Cannon																F	roje	ct Na	me	<u> </u>	iga	rille	o S	W	D #	1					
	Company Name	Yates Petroleum Co	rporation																F	roje	ct #:	: <u>30</u>	-015	<u>5-21</u>	643	3							
	Company Address.	105 South 4th Street	_																Pro	ject	Loc:	Ede	dy Co	ount	y								
	City/State/Zip	Artesia, NM 88210										-	_							Р	0#:	: 103	3202	0	_								
	Telephone No:	575-748-4111				······································	Fax No		57:	5-74	18-4	585						Repo	ort F	orma	nt:	X	Star	ndar	d			TRF			-] _{NP'}	DES	
	Sampler Signature:	(inioes	() o		<i>d</i>	<u> </u>	- e-mail				can	no	നര)vat	esr	hetr		eum c	om			•			-								
		LANGLED		<u>n0</u>	041		-			- <u></u>		110	nia	10		<u></u>	01.	<u>ounn.</u> c	F	-				An	alyz	e Fo		 				Π	
(lab use	- 11201E	0/1120150								_												TO	TAL					Í				12 hrs	
ORDE	R#: 4000	0141191]	T	1	Ţ	┢	Pres	ervati	ion &	# of (Conta	iners	-	Matrix	- Lug	9				⊣g Se			8260					24, 48, 7	
AB # (lab use only)	FIEL	D CODE	-	seginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	otal # of Containers	lce	HNO ₃	P	H2SO4	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge SW = Groundwater S=Soil/Solid	TPH 418 1 BUTEN	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	Semivolatiles	BTEX 8021B/5030 or BTEX	RCI	NORM	Chlorides		RUSH TAT (Pre-Schedule)	standard TAT
OI	Gr	ab 1-1		1.	<u> </u>	10/24/2011	9:30 AM	<u> </u>	1	x	†		<u> </u>		-	+	┫	s	<u> </u>		Ē	Ì	Ť	-	-	<u> </u>	x	╧┼	-	x	$\uparrow \uparrow$	Ī	X
ED	Gr	ab 1-2		2'	2'	10/24/2011	9.35 AM		1	X								S	X								x		Τ	x			х
03	Gr	ab 1-3	;	3'	3'	10/24/2011	9:40 AM		1	x								S	X								x			x			x
af	Gr	ab 2-1		1'	1'	10/24/2011	9:45 AM		1	X				Ц				S	1.							$ \rightarrow$	\square		_	<u>x</u>			×
05	Gr	ab 2-2	:	2'	2'	10/24/2011	9:50 AM		1	X					\square			S									\downarrow	_+		<u>x</u>	\downarrow		×
06	Gr	ab 2-3	:	3'	3'	10/24/2011	9:55 AM		1	X		L			\downarrow		\downarrow	S	1	_			_	_	_	\downarrow	\downarrow		\downarrow	<u>× </u> _	\square		×
07	Gr	ab 3-1		1'	1'	10/24/2011	10.00 AM		1	X						_	_	S	-				-			_			_	<u>×</u> ↓	\downarrow		×
05	Gr	ab 3-2	2	2'	2'	10/24/2011	10.05 AM		1	X	 		$\left - \right $		4	+	4	S	╇	_			_	_	4	\rightarrow		_+	-	<u>× </u> _	\square		×
$\frac{O_1}{O}$	Gr	ab 3-3	;	3'	3'	10/24/2011	10.10 AM		1	X					_	_	-+	S	╀╴	+						\rightarrow	\downarrow	\rightarrow		× ⊢	\vdash		×
10	Gr	ab 4-1		<u>''-</u> -	1'	10/24/2011	10:15 AM		1	X	-	_		_				<u>S</u>		-	\vdash		_	-+	+	-+	+	-+-	+	¥–	┼┤	-+	×.
11	Gr	ab 4-2		2'	2'	10/24/2011	10:20 AM	_	1	X						+		<u>\$</u>	+-	-	_		\dashv	-+	-+	+	-+	+	+	<u>×</u> -	┼╌┨	-	÷
10	Gr			<u>s</u> -	3	10/24/2011	10:25 AM		1	×		—	$\left - \right $	-+	-+-	+	╉	S		-	\square	H	-		+	+	-+	-+-	÷	<u>×</u>	┼┨	-+	싀
	PLEASE PL							-	_		-			_	╉	+	-		╀	+			+	-+	╉	+	+	+	+	+	┼┨	-+	
Special	Instructions:	TPH: 8015B	, BTEX:	802	1B 8	& Chlorides.	Please show	BT	ΈX	re	sults	as	mg,	/kg	Tha	ank	you	 J		-	Lab San VO	nple Cs F	tory Còn ree d	Con taine of He	nme ers l eads	ints: intac spac	; ;t? ;e?	 `		8	, <u>t</u>) ; i	 N N	
Relinquis Relinquis	hed by	Dat 10/24 Dat	в /11 <u>З</u> е	Time	P	Received by										י נ	Date		firr Tirr	e e	Lab Cus Cus San	els c stody stody nple by S	n co sea sea Han ampl	Is or Is or Is or d De ler/C	ner(n coi n coi elive lient	s) ntair oler(red Rep	ner(s (s) p ? r	3) 140	۰.				, I
Relinquis	hed by	Dat	e	Time		Received by ELC	Mila	s u	in	cm						10	Date 25	5.11 C	Tirr 18:	e '/ 0	Ten	nper	ature	oʻZ Up	ЗÌ.	Rece	A sipt		Ç	<u> </u>	3.0°	°C	



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, <u>San Antonio, Tampa</u> 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 Per	roleum	
Date/Time:	10-24-11	- 15:5tE	10.35.11 8.40
Lab ID # :	430153	1 43015	<u> </u>
Initials:	WZ	INE	

Sample Receipt Checklist

				:
1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	t 1
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		1
9. Container labels legible and intact?	< Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		1
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	(Yes)	No	N/A	1
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		1
16. Subcontract of sample(s)?	Yes	No	(N/A	1
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	D.	Cooler 5 No.	ļ
lbs 30 °C lbs °C lbs °	C Ibs	°c	lbs	°c

Nonconformance Documentation

Contact:	Contacted by: Date	:/Time:
Regarding:		
<u></u>		
Corrective Action Tak	en:	:
Check all that apply:	Cooling process has begun shortly after sampling event and out of	ftomooraturo
check an that apply.	condition acceptable by NELAC 5.5.8.3.1.a.1.	i temperature
	□ Initial and Backup Temperature confirm out of temperature condition	ons
	\Box Client understands and would like to proceed with analysis	
		,

;

Analytical Report 426978

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Cigarillo SWD #1

30-015-21643

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

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

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00989): Arizona (AZ0758)



08-SEP-11



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

Reference: XENCO Report No: 426978 Cigarillo SWD #1 Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426978. 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. 426978 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

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



Sample Cross Reference 426978



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD #1

10.000

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-#1	S	08-30-11 09:33	2 - 2 In	426978-001
Comp-#2	S	08-30-11 09:45	2 - 2 In	426978-002
Comp-#3	S	08-30-11 09:55	2 - 2 In	426978-003
Comp-#4	S	08-30-11 10:06	2 - 2 In	426978-004



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Cigarillo SWD #1



 Project ID:
 30-015-21643

 Work Order Number:
 426978

Report Date: 08-SEP-11 Date Received: 09/02/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869210 BTEX by EPA 8021B SW8021BM

Batch 869210, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 426978-004, -002, -001, -003. The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes, o-Xylene is within laboratory Control Limits

Batch: LBA-869330 TPH By SW8015B Mod SW8015B NM

Batch 869330, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 426978-004, -002, -001, -003. The Laboratory Control Sample for C6-C10 Gasoline Range Hydrocarbons is within laboratory Control Limits



Project Id: 30-015-21643

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 426978

Yates Petroleum Corporation, Artesia, NM

Project Name: Cigarillo SWD #1



Date Received in Lab: Fri Sep-02-11 08:00 am

Report Date: 08-SEP-11

·						-		Project Ma	anager:	Brent Barron II	
	Lab Id:	426978-	001	426978-	002	426978-	003	426978-	004		
Analysis Paguestad	Field Id:	Comp-	#1	Comp-	#2	Comp-	#3	Comp-	#4		
Analysis Kequesteu	Depth:	2-2 I	n	2-2 II	ı	2-2 Ii	n	2-2 I	n		
	Matrix:	SOIL		SOIL		SOII	-	SOIL	-		
	Sampled:	Aug-30-11	09 33	Aug-30-11	09 45	Aug-30-11	09.55	Aug-30-11	10 06		
BTEX by EPA 8021B	Extracted:	Sep-02-11	12 00	Sep-02-11	12:00	Sep-02-11	12 00	Sep-02-11	12 00		
	Analyzed:	Sep-03-11	14.36	Sep-03-11	08 52	Sep-03-11	09:15	Sep-03-11	09:38		
	- Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		ND	0 00101	ND	0 000992	ND	0 00101	ND	0 00100		
Toluene		ND	0 00201	ND	0 00198	ND	0 00201	ND	0 00200		
Ethylbenzene		0 00286	0 00101	ND	0 000992	ND	0 00101	ND	0 00100		
m_p-Xylenes		0 0168	0 00201	ND	0 00198	ND	0 00201	ND	0 00200		
o-Xylene		0 00732	0 00101	ND	0 000992	ND	0 00101	ND	0 00100		
Total Xylenes		0 0241	0 00101	ND	0 000992	ND	0 00101	ND	0 00100		
Total BTEX		0 0270	0.00101	ND	0 000992	ND	0 00101	ND	0.00100		
Percent Moisture	Extracted:										
	Analyzed:	Sep-02-11	10.00	Sep-02-11	10:00	Sep-02-11	10 00	Sep-02-11	10 00		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		1 45	1 00	ND	1 00	ND	1.00	ND	1 00		
TPH By SW8015B Mod	Extracted:	Sep-02-11	14:30	Sep-02-11	14.30	Sep-02-11	14 30	Scp-02-11	14 30		
	Analyzed:	Sep-03-11	16 11	Sep-03-11	16 42	Sep-03-11	17.13	Sep-03-11	17.44		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		30 7	151	ND	15.0	ND	151	ND	15 1		
C10-C28 Diesel Range Hydrocarbons		1500	15.1	39 3	15.0	802	15.1	745	15-1		
Total TPH		1530	15.1	39.3	15 0	802	15.1	745	15.1		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the bestjudgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our hability 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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

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

- NC Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

4143 Greenbriar Dr, Stafford, Tx 77477	
9701 Harry Hines Blvd, Dallas, TX 75220	
5332 Blackberry Drive, San Antonio TX 78238	
2505 North Falkenburg Rd, Tampa, FL 33619	
5757 NW 158th St, Miami Lakes, FL 33014	
12600 West I-20 East, Odessa, TX 79765	
6017 Financial Drive, Norcross, GA 30071	
3725 E Atlanta Ave, Phoenix, AZ 85040	

Phone Fax (281) 240-4200 (281) 240-4280 (214) 351-9139 (214) 902 0300 (210) 509-3334 (210) 509-3335 (813) 620-2000 (813) 620-2033 (305) 823-8500 (305) 823-8555 (432) 563-1800 (432) 563-1713 (770) 449-5477 (770) 449-8800 (602) 437-0330



Project Name: Cigarillo SWD #1

Units: mg/kgDate Analyzed: 09/03/11 08:52SURROGATE RECBTEX by EPA 8021BAmount Found [A]True Amount [B]Analytes0 02630.03001,4-Difluorobenzene0 02630.03004-Bromofluorobenzene0 02590.0300Lab Batch #: 869210Sample: 426978-003 / SMPBatch: 1Matrix: Sec	Recovery %R [D] 88 86	Control Limits %R	Flags			
BTEX by EPA 8021BAmount Found [A]True Amount [B]Analytes0 02630.03001,4-Difluorobenzene0 02630.03004-Bromofluorobenzene0 02590.0300Lab Batch #: 869210Sample: 426978-003 / SMPBatch: 1 Matrix: Second State	Recovery %R [D] 88 86	Control Limits %R	Flags			
Analytes 0 0263 0.0300 1,4-Difluorobenzene 0 0259 0.0300 4-Bromofluorobenzene 0 0259 0.0300 Lab Batch #: 869210 Sample: 426978-003 / SMP Batch: 1 Matrix: Set	88 86					
1,4-Difluorobenzene 0 0263 0.0300 4-Bromofluorobenzene 0 0259 0.0300 Lab Batch #: 869210 Sample: 426978-003 / SMP Batch: 1 Matrix: So	88 86					
4-Bromofluorobenzene 0 0259 0.0300 Lab Batch #: 869210 Sample: 426978-003 / SMP Batch: 1 Matrix: Set	86	80-120				
Lab Batch #: 869210 Sample: 426978-003 / SMP Batch: 1 Matrix: So		80-120				
	oil					
Units: mg/kg Date Analyzed: 09/03/11 09:15 SURROGATE REC	COVERY S	STUDY				
BTEX by EPA 8021B Analytes Analytes Amount Amount [A] Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1.4-Difluorobenzene 0.0291 0.0300	97	80-120				
4-Bromofluorobenzene 0.0261 0.0300	87	80-120				
Lab Batch #: 869210 Sample: 426978-004 / SMP Batch: 1 Matrix: SC						
Laita ma/ka Data Analyzad: 00/03/11 00:38 SURROGATE REC	SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Amount Frue Found Amount [A] [B]	Recovery %R [D]	Limits %R	Flags			
1,4-Difluorobenzene 0.0275 0.0300	92	80-120				
4-Bromofluorobenzene 0 0263 0.0300	88	80-120				
Lab Batch #: 869210 Sample: 426978-001 / SMP Batch: 1 Matrix: SG	oil	· · · · · · · · · · · · · · · · · · ·				
Units: mg/kg Date Analyzed: 09/03/11 14:36 SURROGATE REC	OVERY	STUDY				
BTEX by EPA 8021B Amount True [A] [B]	Recovery %R	Control Limits %R	Flags			
Analytes	[D]					
1,4-Difluorobenzene 0 0269 0 0300	90	80-120				
4-Bromofluorobenzene 0.0265 0.0300	88	80-120				
Lab Batch #: 869330 Sample: 426978-001 / SMP Batch: 1 Matrix: So	oil					
Units: mg/kg Date Analyzed: 09/03/11 16:11 SURROGATE REC	COVERY	STUDY				
TPH By SW8015B Mod Amount Found [A] True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chloropetane 02.4 00.5		70-135				
o-Terphenyl 45.1 49.8	91	70-135				

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

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



Project Name: Cigarillo SWD #1

Vork Orders : 426978,	, Sample: 426978-002 / SMP	Batel	Project ID): 30-015-21 Soil	643			
Units: mg/kg	Date Analyzed: 09/03/11 16:42	SU	RROGATE RE	COVERY	STUDY			
ТРН В	y SW8015B Mod Analytes	Amount Found [A]	Truc Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		88 2	99.9	88	70-135			
o-Terphenyl		417	50.0	83	70-135			
Lab Batch #: 869330	Sample: 426978-003 / SMP	Batch	n: 1 Matrix:	Soil	<u>'-</u> '			
Units: mg/kg	Date Analyzed: 09/03/11 17:13	SU	RROGATE RE	COVERY S	STUDY			
ТРН В	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		83.9	99 7	84	70-135			
o-Terphenyl		40 5	49 9	81	70-135			
Lab Batch #: 869330	Sample: 426978-004 / SMP	Batel	n: 1 Matrix:	Soil				
Units: mg/kg	Date Analyzed: 09/03/11 17:44	SU	SURROGATE RECOVERY STUDY					
TPH B	Amount Found [A]	True Amount [B]	Recovery %R {D}	Control Limits %R	Flags			
1-Chlorooctane	,	75.7	99 7	76	70-135			
o-Terphenyl		36.0	49.9	72	70-135			
Lab Batch #: 869330	Sample: 611000-1-BLK / B	LK Batel	h: 1 Matrix:	Solid	<u>.</u>			
Units: mg/kg	Date Analyzed: 09/03/11 02:06	SU	RROGATE RE	ECOVERY	STUDY			
ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes		····					
1-Chlorooctane		87 0	99 9	87	70-135			
o-Terphenyl	i	42 9	50.0	86	70-135			
Lab Batch #: 869210	Sample: 610920-1-BLK / B	LK Bate	h: 1 Matrix	Solid	GTUDY			
Units: mg/kg	Date Analyzed: 09/03/11 08:30	SU	KRUGATE RI			r		
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
I,4-Difluorobenzene		0 0282	0.0300	94	80-120			
4-Bromofluorobenzene	-	0.0256	0 0300	85	80-120	[

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

*** Poor recoveries due to dilution

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



Project Name: Cigarillo SWD #1

/ork Orders : 426978 Lab Batch #: 869330	, Sample: 611000-1-BKS / Bl	KS Batch:	Project II	D: 30-015-21 Solid	643			
Units: mg/kg	Date Analyzed: 09/03/11 01:03	SUR	ROGATE RI	ECOVERYS	STUDY			
ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes							
1-Chlorooctane		104	99.9	104	70-135			
o-I erphenyl		43.3	50.0	87	70-135			
Lab Batch #: 869210	Sample: 610920-1-BKS / B	KS Batch:	1 Matrix	:Solid				
Units: mg/kg	Date Analyzed: 09/03/11 06:59	SUR	ROGATE RI	ECOVERY	STUDY			
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0 0297	0 0300	99	80-120			
4-Bromofluorobenzene		0.0279	0 0300	93	80-120			
Lab Batch #: 869330	Sample: 611000-1-BSD / B	SD Batch:	1 Matrix	:Solid	<u> </u>			
Units: mg/kg	Date Analyzed: 09/03/11 01:34	SUR	ROGATE RI	E RECOVERY STUDY				
трн н	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		99 3	99 7	100	70-135	·		
o-Terphenyl		41.9	49 9	84	70-135			
Lab Batch #: 869210	Sample: 610920-1-BSD / B	SD Batch:	l Matrix	:Solid	<u> </u>			
Units: mg/kg	Date Analyzed: 09/03/11 07:21	SUR	ROGATE R	ECOVERY	STUDY			
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]	 			
1,4-Difluorobenzene		0 0285	0.0300	95	80-120			
4-Bromofluorobenzene		0 0279	0.0300	93	80-120			
Lab Batch #: 869210	Sample: 426978-002 S / MS	S Batch:	l Matrix	:Soil				
Units: mg/kg	Date Analyzed: 09/03/11 12:43	SUR	ROGATE R	ECOVERY	STUDY			
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0284	0 0300	95	80-120	<u> </u>		

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

*** Poor recoveries due to dilution

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



Project Name: Cigarillo SWD #1

ork Orders : 426978 Lab Batch #: 869330	;, Sample: 426985-002 S / MS	Project ID: 30-015-21643 MS Batch: I Matrix: Soil											
Units: mg/kg	Date Analyzed: 09/03/11 19:15	SU	RROGATE R	ECOVERY	STUDY								
ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags							
	Analytes												
1-Chlorooctane		103	99 7	103	70-135								
o-Terphenyl		41 7	49 9	84	70-135								
Lab Batch #: 869210	Sample: 426978-002 SD / N	MSD Batch: I Matrix: Soil											
Units: mg/kg	Date Analyzed: 09/03/11 13:05	SURROGATE RECOVERY STUDY											
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags							
1,4-Difluorobenzene		0 0264	0 0300	88	80-120								
4-Bromofluorobenzene		0 0257	0.0300	86	80-120								
Lab Batch #: 869330	Sample: 426985-002 SD / M	MSD Batc	h: 1 Matrix	Soil	<u> </u>								
Units: mg/kg	Date Analyzed: 09/03/11 19:46	SU	RROGATE R	ECOVERY	STUDY								
ТРН Е	3y.SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags							
1-Chlorooctane	······································	92.5	99 6	93	70-135								
o-Terphenyl	· · · · · · · · · · · · · · · · · · ·	37.3	49 8	75	70-135								

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

*** Poor recoveries due to dilution

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



BS / BSD Recoveries

Project Name: Cigarillo SWD #1



Work Order #: 426978							Pro	ject ID: 1	30-015-216	43	
Analyst: ASA	Da	ate Prepar	red: 09/02/20	11			Date A	nalyzed: (09/03/2011		
Lab Batch ID: 869210 Sample: 610)920-1-BKS	Bate	h #: 1					Matrix:	Solid		
Units: ^{mg/kg}		BLAN	K /BLANK	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUE	γ	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added IBl	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added IEI	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes						0.100					
Benzene	<0 00100	0 100	0 111	111	0.100	0 108	108	3	70-130	35	
Toluene	<0 00200	0 100	0 0974	97	0.100	0 0965	97	1	70-130	35	
Ethylbenzene	<0 00100	0 100	0 105	105	0 100	0 104	104	1	71-129	35	-
m_p-Xylenes	<0 00200	0 200	0 209	105	0 200	0 209	105	0	70-135	35	
o-Xylene	<0.00100	0.100	0 0980	98	0.100	0 0975	98	1	71-133	35	
Analyst: BBH	Da	ate Prepar	ed: 09/02/20	11			Date A	nalyzed: (09/03/2011		
Lab Batch ID: 869330 Sample: 611	000-1-BKS	Batcl	h #: 1					Matrix: S	Solid		
Units: ^{mg/kg}		BLAN	K/BLANK	SPIKE / E	BLANK S	PIKE DUPI	LICATE	RECOVE	ERY STUD	θY	
TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15 0	999	722	72	997	698	70	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	999	842	84	997	797	80	5	70-135	35	

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



Project Name: Cigarillo SWD #1



Work Order #: 426978	Project ID: 30-015-21643										
Lab Batch ID: 869210	QC- Sample ID: Date Prepared:	426978 09/02/2	-002 S 011	Ba An	tch #: alyst:	1 Matri: ASA	x: Soil				
Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY :	STUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Benzene	<0 000998	0.0998	0.0798	80	0 100	0 0718	72	11	70-130	35	
Toluene	<0 00200	0 0998	0 0665	67	0 100	0.0580	58	14	70-130	35	Х
Ethylbenzene	<0 000998	0 0998	0.0641	64	0 100	0 0520	52	21	71-129	35	Х
m_p-Xylenes	<0.00200	0 200	0.123	62	0 200	0.0983	49	22	70-135	35	Х
o-Xylene	<0.000998	0.0998	0.0543	54	0 100	0 0438	44	21	71-133	35	X
Lab Batch ID: 869330	QC- Sample ID:	426985	-002 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed: 09/03/2011	Date Prepared:	09/02/2	011	An	alyst:	BBH					
Reporting Units: mg/kg		М	ATRIX SPIK	E / MAT	RIX SPL	KE DUPLICA	TE REC	OVERY S	STUDY		
TPH By SW8015B Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.2	1010	721	71	1010	657	65	9	70-135	35	x
C10-C28 Diesel Range Hydrocarbons	23.9	1010	848	82	1010	766	73	10	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E





Project Name: Cigarillo SWD #1

Work Order #: 426978

Lab Batch #: 869091			Project I	D: 30-015-2	21643
Date Analyzed: 09/02/2011 10:00	Date Prepared: 09/02/2011	Ana	lyst: WRU		
QC- Sample ID: 426978-001 D	Batch #: 1	Mat	rix: Soil		
Reporting Units: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	1 45	1 34	8	20	1

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

XE	NCO-Envi	ronme	ental	Lal	00	f Texa	S		1	12 . Oc	:600 dess	We sa, "	<i>Ci</i> est I- Texa	1 <i>A </i> 20 E 15 79	V <i>Ol</i> ast 9765	- Cl	JST	ΌΡΥ	REC	COR	RD A	ND	AN I	IAL Pho Fax	YS/ ne: c:	'S R 432 432	!EQ !-563 !-563	UES 3-18(3-17 ⁻	\$7 D0 13				
	Project Manager.	Amber Canno	on															P	roje	ct Na	ame	Ci	ga	rille	o S	WE) #	1					
	Company Name	Yates Petrole	um Corpora	tion															P	roje	ct #:	30	-015	5-21	1643	3							
	Company Address	105 South 4th	n Street																Proj	ect	Loc:	Edo	iy Co	ount	у								
	City/State/Zip	Artesia, NM	88210				_		•											Р	'O #:	103	202	0									
	Telephone No:	575-748-4111	1				Fax No		575	5-74	8-45	585						Repo	ort Fo	orma	nt:	×	Star	ndar	d	[<u> </u>	TRR	P		NPD	ES	
	Sampler Signature:	and	ner (ал	100		e-mail			<u>ac</u>	can	no	n@	yat	esp	etr	ole	um.c	om														
ahuse	only)				.		-		1	-									F			Ť	CIP I	An	nalyz	e Fo	л [.]		<u> </u>		F	٦	
DRDEF	a#: 476978/	47698	1						1	—	Prese	ervat	ion &	# of C	Contai	ners		Matrix	-	<u> </u>	1		TAL	_		7						72 hrs	
		120 10	<u> </u>	T				Τ	T.	┢					Ť	T	╈		8015	88				H S C			X 8260					2, 4	
.B # (lab use only)				ginning Depth	ding Depth	ate Sampled	ime Sampled	ld Filtered	al # of Containens	0	NO ₃		SO4	Юн	aչS ₂ O ₃	one	iner (specify) /=Drukino Water SL=Sludae	/ = Groundwater S=Soil/Solk	=Non-Potable Specify Othe PH 418 1 8015M	H TX 1005 TX 1	ttions (Ca, Mg, Na, K)	itons (CI, SO4, Alkalinity)	R / ESP / CEC	etals As Ag Ba Cd Cr Pt	latites	mivolatiles	FEX 80218/5030 or BTE		טא א ilorides			JSM IAI (Pre-Schedule)	andard TAT
<u>-</u>	FIE			Be	<u>ш</u> от	Q/20/2011	⊢ 0.22.AM	<u><u> </u></u>	Ĕ	l º √	Ī	Ť	Ĥ	ž	ž	ž (5	ž 1º	H.	ပီ	Ā	ŝ	ž	Ş	- N			5	┿┽	┦	-	<u>8</u> V
$\frac{\lambda_1}{\gamma_2}$		omp <u>#1</u>		2"	2"	8/30/2011	9 35 AM	\vdash		Ê		+	\square		+	+	╈	<u> </u>	Ť			$\left \right $		\neg	-		$\frac{2}{x}$	+	$\frac{1}{x}$	++	-+	╉	≏ ×
CIS	Co	omp-#3		2"	2"	8/30/2011	9:55 AM	\square	1	x					-†		1	s	T _x	1	-		+	-1	-+	1	x	+	x		+	Ť	×
204	Co	omp-#4		2"	2"	8/30/2011	10:06 AM		1	X						_		S	X							1	x	\mp	x		1		x
								┢		┝	-		$\left - \right $		-	+-	╉			╞	-	-	-+	+	-	+	+	+		┝┤	+	╀	
				1				\vdash						-+	-+		╧		╋				-+			+	+	+-	+	\dagger		╈	_
																													_			1	
												L			_				_				-			\downarrow	_			\square		\bot	
										-		-	$\left \right $	-			+-		+-		\square		+	-		+	+	+	+-	┼╌┼	+	╀	_
	· · · · · · · · · · · · · · · · · · ·					<u> </u>						\vdash		+	+	+	╀		╈				\uparrow			+		┢	╈	\vdash	╉	╉	_
	PLEASE P		S														Ι															┮	
	ON SEPAR	RATE REPOR	т															_		Ľ.													
pecial I	Instructions:	TPH:	8015B, BT	'EX: 8)21B	& Chlorides.	Please show	v B1	ΓEX	res	sults	s as	s mg	/kg.	Tha	ank	you.				Lat Sar	orat nple	cory Con	Con	nme ers l	nts:	: :t?		\langle	$\widehat{\mathcal{A}}$	N		
elinquisi	hed by	·····	Date	Ti	me	Received by											Date	T	Tim	e	VO Lab	Cs F els c	ree ()n co	of He ontai	eads iner(space s) ntair	e?	•)	ς	¥ R		Ð	
Elinguis	Nou (anno hed by	n	09/01/11 Date	13:3 Ti	0	Received by		<u> </u>									Date	_	Tim	e	Cus San	tody nple by S by C	sea Han ampl	ls or d De ler/C er?	n coi elive thent	oler(: red Rep JPS	s) s) s ²	, , ,		NO NO	N N N N N N N N) Star	
elinquisi	hed by		Date	Ti	me	Received by EL	Murda		4						k	1.2	Date 	1	Tim BC	e O	Ten	npera	ature	e Up	on F	Rece	npt:	<	. eu	یمین 4.1	°C	;	



ŝ

: . : 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
Date/Time:	9-2-11 8 60
Lab ID # :	426978/426981-01
Initials:	£U

Sample Receipt Checklist

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

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:								
Regarding:										
Corrective Action Taken:										
Check all that apply:	□ Cooling process has begun shortly after san	poling event and out of temperature								
oneck an that apply.	 □ condition acceptable by NELAC 5.5.8.3 □ Initial and Backup Temperature confirm out □ Client understands and would like to procee 	ining event and out or temperature .1.a.1. of temperature conditions d with analysis								

Analytical Report 430159

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Cigarillo SWD # 1

30-015-21643

01-NOV-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

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

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00989): Arizona (AZ0758)



01-NOV-11



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

Reference: XENCO Report No: 430159 Cigarillo SWD # 1 Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 430159. 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. 430159 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

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



Sample Cross Reference 430159



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 1-1	S	10-24-11 09:30	1 - 1 ft	430159-001
Grab 1-2	S	10-24-11 09:35	2 - 2 ft	430159-002
Grab 1-3	S	10-24-11 09:40	3 - 3 ft	430159-003
Grab 2-1	S	10-24-11 09:45	1 - 1 ft	430159-004
Grab 2-2	S	10-24-11 09:50	2 - 2 ft	430159-005
Grab 2-3	S	10-24-11 09:55	3 - 3 ft	430159-006
Grab 3-1	S	10-24-11 10:00	1 - 1 ft	430159-007
Grab 3-2	S	10-24-11 10:05	2 - 2 ft	430159-008
Grab 3-3	S	10-24-11 10.10	3 - 3 ft	430159-009
Grab 4-1	S	10-24-11 10:15	1 - 1 ft	430159-010
Grab 4-2	S	10-24-11 10:20	2 - 2 ft	430159-011
Grab 4-3	S	10-24-11 10:25	3 - 3 ft	430159-012



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Cigarillo SWD # 1



 Project ID:
 30-015-21643

 Work Order Number:
 430159

Report Date: 01-NOV-11 Date Received: 10/25/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 430159

Yates Petroleum Corporation, Artesia, NM Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Tue Oct-25-11 08:40 am

Report Date: 01-NOV-11

Toject Docution. Daug County								Project Ma	nager:	Brent Barron l	[]		
	Lab Id:	430159-0	001	430159-0	002	430159-0	003	430159-0	04	430159-0	05	430159-0	006
Aughoria Paguantad	Field Id:	Grab 1-	·1	Grab 1-	2	Grab 1-	3	Grab 2-	1	Grab 2-2	2	Grab 2-	-3
Analysis Kequestea	Depth:	I-1 ft	1-1 ft		2-2 ft			1-1 ft		2-2 ft		3-3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Oct-24-11 (09 30	Oct-24-11 (09.35	Oct-24-11 (9 40	Oct-24-11 (9 45	Oct-24-11 0	9 50	Oct-24-11	09 55
Anions by E300	Extracted:												
	Analyzed:	Oct-26-11	11.50	Oct-26-11 1	11.50	Oct-26-11	1.50	Oct-26-11	1 50	Oct-26-11 1	1 50	Oct-26-11	11.50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7280	187	6510	185	5570	92 9	2700	46 5	3770	46.9	3830	46.8
Percent Moisture	Extracted:												
	Analyzed:	Oct-25-11	14.35	Oct-25-11 1	14 35	Oct-25-11 1	4.35	Oct-25-11	5 50	Oct-25-11 1	5 50	Oct-25-11	15:50
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		103	1.00	9 1 5	1 00	9 60	1 00	9 74	1 00	10 5	1.00	10.3	1 00

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

HOOL

Brent Barron II Odessa Laboratory Manager



Certificate of Analysis Summary 430159

Yates Petroleum Corporation, Artesia, NM Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Tue Oct-25-11 08 40 am

Report Date: 01-NOV-11

Tojett Estation. Eddy County								Project Ma	nager:	Brent Barron	П		
	Lab Id:	430159-	007	430159-0	08	430159-0	009	430159-0	010	430159-0)11	430159-0	012
Australia Democrated	Field Id:	Grab 3-	-1	Grab 3-	2	Grab 3-	3	Grab 4-	1	Grab 4-	2	Grab 4-	-3
Analysis Kequested	Depth:	1-1 ft		2-2 ft	87	3-3 ft		1-1 ft		2-2 ft	-	3-3 ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-24-11	10 00	Oct-24-11 1	10 05	Oct-24-11	10.10	Oct-24-11	0.15	Oct-24-11	10 20	Oct-24-11	10 25
Anions by E300	Extracted:												
	Analyzed:	Oct-26-11	11.50	Oct-26-11	11 50	Oct-26-11	11:50	Oct-26-112	21:25	Oct-26-11	11:50	Oct-26-11	11 50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1690	45 7	2640	45 8	2220	46 1	1650	22.6	1100	18.2	486	911
Percent Moisture	Extracted:												
	Analyzed:	Oct-25-11	15:50	Oct-25-11 1	15 50	Oct-25-11	15 50	Oct-25-11 1	5 50	Oct-25-11 1	15 50	Oct-25-11	15.50
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.04	1 00	8 32	1 00	8 84	1 00	7 03	1 00	7.51	1 00	7 78	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

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

HOOR

Brent Barron II Odessa Laboratory Manager



Flagging Criteria

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

BRL Below Reporting Limit.

RL Reporting Limit		
MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation
DL Method Detection Limit		
NC Non-Calculable		
+ Outside XENCO's scope of NEL	AC Accreditation. ^ NELAC	or State program does not offer Accreditation at this time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

	Phone	Fax
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
6017 Financial Drive, Norcioss, GA 30071	(770) 449-8800	(770) 449-5477
3725 E Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



V Male Y A Marco Marco A



Project Name: Cigarillo SWD # 1

Work Order #: 430159 Analyst: BRB	D	ate Prepai	red: 10/26/201	11			Pro Date A	ject ID: 3 nalyzed: 1	30-015-216 10/26/2011	43	
Lab Batch ID: 873154 Sample: 87315	4-1-BKS	Bate	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
Anions by E300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0 840	20 0	22 1	111	20 0	22.2	111	0	75-125	20	
Analyst: BRB	D	ate Prepai	ed: 10/26/201	1			Date A	nalyzed: 1	0/26/2011		
Lab Batch ID: 873272 Sample: 87327	2-1-BKS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE	RECOVE	ERY STUD	Y	
Anions by E300 Analytes	Blank Sample Rcsult [A]	Spike Addeđ [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0 840	20.0	22 0	110	20 0	21 3	107	3	75-125	20	

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





Project Name: Cigarillo SWD #1

Work Order #: 430159							
Lab Batch #: 873154				Pro	oject ID:	30-015-216	43
Date Analyzed: 10/26/2011	Date P	repared: 10/20	5/2011	A	nalyst: B	RB	
QC- Sample ID: 430085-001 S		Batch #: 1		1	Matrix: So	oil	
Reporting Units: mg/kg		MATR	RIX / MA'	TRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions by EPA 300		Parent Sample Result [A]	Spike Added {B}	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		1050	563	1680	112	75-125	
Lab Datab #1 972154							
Date Analyzed: 10/26/2011	Date P	repared: 10/20	5/2011	A	alyst: B	RB	
QC- Sample ID: 430159-004 S		Batch #: 1		I	Matrix: So	oil	
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		2700	1110	3980	115	75-125	
Lab Batch #: 873272							
Date Analyzed: 10/26/2011	Date P	repared: 10/2	6/2011	A	Analyst: B	RB	
QC- Sample ID: 430159-010 S		Batch #: 1		1	Matrix: So	oil	
Reporting Units: mg/kg		MATF	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		1650	538	2180	99	75-125	
Lab Batch #: 873272							
Date Analyzed: 10/26/2011	Date P	repared: 10/2	6/2011	A	Analyst: B	RB	
QC- Sample ID: 430221-001 S		Batch #: 1		j	Matrix: S	oil	
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride		2050	521	2470	81	75-125	
		l	I	1		1	

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

BRL - Below Reporting Limit





Project Name: Cigarillo SWD # 1

Work Order #: 430159						
Lab Batch #: 873154				Project II	D: 30-015-2	1643
Date Analyzed: 10/26/2011 11:50 Da	ite Prepared: 1	0/26/2011	Ana	lyst: BRB		
QC- Sample ID: 430085-001 D	Batch #:	1	Mat			
Reporting Units: mg/kg	SA	MPLE /	SAMPLE	DUPLIC	ATE RECO	OVERY
Anions by E300 Analyte	Pare	nt Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		1050	1050	0	20	
Lab Batch #: 873272				·		
Date Analyzed: 10/26/2011 21:25 Da	ate Prepared: 1	0/26/2011	Ana	lyst: BRB		
QC- Sample ID: 430159-010 D	Batch #:	1	Ma	trix: Soil		
Reporting Units: mg/kg	SA	AMPLE /	SAMPLE	DUPLIC	ATE RECO	OVERY
Anions by E300	Pare	nt Sample Result [A]	Sample Duplicate Result IB]	RPD	Control Limits %RPD	Flag
Chloride		1650	1650	0	20	-
ГL. DL. #. 873151		1020				
Lad Balch #: 075157 Date Analyzed: 10/25/2011 10:10 D:	ate Prepared:]	0/25/2011	Ana	lvst:BRB		
OC- Sample ID: 430118-001 D	Batch #:	1	Ma	trix: Soil		
Renorting Units: %	S <i>I</i>	AMPLE	/SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Pare	nt Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		•••	[B]			
Percent Moisture		1.75	1 81	3	20	
Lab Batch #: 873159						
Date Analyzed: 10/25/2011 15:50 D:	ate Prepared: 1	0/25/2011	l Ana	lyst:BRB		
QC- Sample ID: 430159-004 D	Batch #:	1	Ma	trix: Soil		
Reporting Units: %	SA	AMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Pare	ent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		9 74	9 82	1	20	

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

BRL - Below Reporting Limit

XENCO-Envi	ronmental Lab of Texas	CHAIN OF CUS	STODY RECORD AND ANALYSIS REQUEST
		12600 West I-20 East Odessa, Texas 79765	Phone: 432-563-1800 Fax: 432-563-1713
Project Manager	Amber Cannon		Project Name: Cigarillo SWD #1
Company Name	Yates Petroleum Corporation		Project #: <u>30-015-21643</u>
Company Address.	105 South 4th Street	· · · · · · · · · · · · · · · · · · ·	Project Loc: Eddy County
City/State/Zip [.]	Artesia, NM 88210		PO #: 1032020

	City/State/Zip Ar	rtesia, NM 88210																P	0#:	103	2020						<u> </u>	<u> </u>		
	Telephone No [.] 57	75-748-4111				Fax No:		575	5-748	3-458	35					Rep	ort F	orma	ıt:	×	Star	darc	1]tr	RP	Ľ	וא 🗋	PDES	;
	Sampler Signature:	Inder C	лa	nn	\mathbf{X}	e-mail			ac	anr		@y	ates	spet	rol	eum.	com	I												
						-																Ana	lyze	For.		_				1
(lab use	only)																+							-	-				Ę	
ORDE	R#: 430/52	5/4301551							F	reser	vation	\$#0	of Cont	ainer		Matri	× ب	1	1			e	+-	-	1				8. 72	
.AB # (lab use only)	FIELD	CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	fotal # of Contauners	lce	HNO ₃	HC	H/SOH	Na ₂ S ₂ O ₃	Nane	Other (Specify)	DW=Drinking Water St_Sludge GW = Groundwater S=Soit/Solid	NP=Non-Potable Specily Other TPH 418 1 8015M 801	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4. Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg S	Volatiles Sernivolatiles	BTEX 8021B/5030 or BTEX 826	RCI	N O.R.M	Chlorides		RUSH TAT (Pre-Schedule) 24, 4	Standard TAT
$\overline{\mathcal{O}}$	Grab	1-1	1'	1'	10/24/2011	9·30 AM		1	x	-+		+				S	<u> </u>				+			x			x	\uparrow	\square	X
(PD)	Grab	1-2	2	2'	10/24/2011	9.35 AM		1	x	-†	+	-				s					-†			x	+		x	\top	\uparrow	x
03	Grab	1-3	3'	3'	10/24/2011	9:40 AM		1	x	+		+		┼─╀		S	Ť				-+			x	╞─┤		x	+	1-1	x
ã	Grab	2-1	1'	1'	10/24/2011	9.45 AM		1	x	-+	+	+-		\vdash t		S	╧	-	t		+	+	-†-	f			x	+		x
05	Grab	2.2	2'	2'	10/24/2011	9:50 AM	Ť		x	-+		-+-		-+	1	S	1-	-				-	+-	1			x	+		X
176	Grab	2-3	3'	3'	10/24/2011	9:55 AM	-†	1	x	-	T	+			1		╈				_	+-	+-	1-	\square		x	+	\square	x
07	Grab	3-1	1'	1'	10/24/2011	10.00 AM		1	x	-		1				s	╈	\uparrow			-+	1		1-	-		x	+		x
0h	Grab	3-2	2'	2'	10/24/2011	10.05 AM		1	x		T					S	1	\top			1	╈	1	+-			x	1	\square	x
OI	Grab	3-3	3'	3'	10/24/2011	10:10 AM		1	x			ϯ			1	S					+	╈		T			x	\top	П	X
10	Grab	4-1	1'	1'	10/24/2011	10:15 AM		1	x	1		T				s		1	\square			1					x	T	Π	X
Î (Grab	4-2	2'	2'	10/24/2011	10:20 AM		1	x							s		1						1			x	Τ	П	x
12	Grab	4-3	3'	3'	10/24/2011	10:25 AM		1	x			Τ				S					T			Γ			x		Π	х
	PLEASE PUT	CHLORIDES																											\Box	
	ON SEPARAT	E REPORT																												
Special I	nstructions:	TPH: 8015B, BT	EX: 80	21B 8	Chlorides.	Please show	BTI	EX	res	ults	as m	ıg/kg	g. Th	nank	yo	u.			Lab Sari VO(orat iple Cs Fi	ory (Cont ree o	Com aine f He	men rs lñt adsp	is: act? ace?	2 1	, .	E	ζ	Ņ. N	-;•
	hed by :	Date 10/24/11	50 7.	ne LIP	Received by										Dat	e	Tim	e	Láb Cus Cus	els o tody tody	n col seal seal	ntain s on s on	er(s) cont cool	iner er(s)	(s)		, X	3	z z(2)	
Relinquisi	red by	Date	Tir	ne	Received by ELC	DOIL I								10	Dat	e	Tim Tim	10 10 1/2	Terr	by Saby C	ample ourie 42			ep 7 S LL ceipt	, DHL (.	- (FedE) Lor	N N ne Sta	u
					1.54	y an	ma	in	*					10	K)	27/ 0	137	70										120		



XENCO Laboratories

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

Prelogin / Nonconformance Report - Sample Log-In

Client:	Yates Petro	rum	
Date/Time:	10-24-11-	15:5× 1	6.75.11 8.40
Lab ID # :	430153 /	430157	
Initials:	WZ,	NE	

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		L
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No ·		1 1 2
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	Yes	No		2 2
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	1
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No).	Cooler 5 No.	
Ibs 30 °C Ibs °C Ibs	°C lbs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Tak	en:		
			į
Check all that apply:	Cooling process has begun shortly after sampling ever	nt and out of temperature	
	condition acceptable by NELAC 5.5.8.3.1.a.1.	•	;
	□ Initial and Backup Temperature confirm out of tempera	ture conditions	4 1
	□ Client understands and would like to proceed with anal	ysis	
			3
			1

Analytical Report 426981

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Cigarillo SWD #1

30-015-21643

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

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

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212). Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco Phoenix Mobile (EPA Lab code: AZ00989): Arizona (AZ0758)

Page 1 of 11



08-SEP-11



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

Reference: XENCO Report No: **426981** Cigarillo SWD #1 Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426981. 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. 426981 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

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





Sample Cross Reference 426981

Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-#1	S	08-30-11 09:33	2 - 2 In	426981-001
Comp-#2	S	08-30-11 09.45	2 - 2 In	426981-002
Comp-#3	S	08-30-11 09:55	2 - 2 In	426981-003
Comp-#4	S	08-30-11 10:06	2 - 2 In	426981-004



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Cigarillo SWD #1



 Project ID:
 30-015-21643

 Work Order Number:
 426981

Report Date: 08-SEP-11 *Date Received:* 09/02/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

-



Certificate of Analysis Summary 426981

Yates Petroleum Corporation, Artesia, NM Project Name: Cigarillo SWD #1



Project Id: 30-015-21643 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Fri Sep-02-11 08:00 am

Report Date: 08-SEP-11

								Project Mai	ager:	Brent Barron II
	Lab Id:	426981-0	001	426981-0	02	426981-0	03	426981-0	04	
Analysis Paguastad	Field Id:	Comp-#	<i>‡</i> 1	Comp-#	2	Comp-#	3	Comp-#	4	
Analysis Requested	Depth:	2-2 In	ι	2-2 In		2-2 In		2-2 In		
	Matrix:	SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-30-11	09 33	Aug-30-11 (9 45	Aug-30-11 (9 55	Aug-30-11	0.06	
Anions by E300	Extracted:									
	Analyzed:	Sep-07-11	19.40	Sep-07-11 1	9 40	Sep-07-11 1	9:40	Sep-07-11 1	9.40	
	Units/RL:	mg/kg	RL	mg/kg	RL.	mg/kg	RL	mg/kg	RL	
Chloride		27400	852	15700	420	17700	423	15300	423	
Percent Moisture	Extracted:									
	Analyzed:	Sep-02-11	10.00	Sep-02-11 1	0:00	Sep-02-111	0.00	Sep-02-11 1	0.00	
	Units/RL:	%	RL.	%	RL	%	RL	%	RL	
Percent Moisture		1 45	1 00	ND	1.00	ND	1 00	ND	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

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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analytic. 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	Repo	rting	Limit
----	------	-------	-------

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

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

	Phone	rax
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 1-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



.



Project Name: Cigarillo SWD #1

Work Order #: 426981 Analyst: BRB		Date	Prepare	e d: 09/07/201	1		Project ID: 30-015-21643 Date Analyzed: 09/07/2011								
Lab Batch ID: 869363	Sample: 869363-1-BKS	Batch #: 1						Matrix: Solid							
Units: mg/kg		K/BLANK S	/ BLANK SPIKE DUPLICATE RECOVERY STUDY												
Anions by E.	300 Blan Sample I [A]	k S Result A	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag			
Analytes			[B]	[C]	[D]	(E)	Result [F]	[G]							
Chloride	<0.84	0 2	20.0	21.1	106	20 0	21 0	105	0	75-125	20				

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

Page 7 of 11



Form 3 - MS Recoveries



Project Name: Cigarillo SWD #1

Work Order #: 426981 Lab Batch #: 869363 Date Analyzed: 09/07/2011 QC- Sample ID: 427106-001 S Reporting Units: mg/kg

Project ID: 30-015-21643

Analyst: BRB

QC- Sample ID: 427106-001 S	Batch #: 1		N	Aatrix: So	oil					
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY									
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag				
Chloride	74.4	100	184	110	75-125					

Date Prepared: 09/07/2011

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

BRL - Below Reporting Limit





Project Name: Cigarillo SWD #1

Work	Order #•	426981
WUIK	Uluel #.	720701

Lab Batch #: 869363 Date Analyzed: 09/07/2011 19:40 Date QC- Sample ID: 426979-006 D	Prepared: 09/07/2011 Batch #: 1	l Ana Ma	Project I alyst: BRB .trix: Soil	D: ³⁰⁻⁰¹⁵⁻²	1643					
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY					
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag					
Chloride	13200	13000	2	20						
Lab Batch #: 869363 Date Analyzed: 09/07/2011 19.40 Date QC- Sample ID: 427106-001 D	Prepared: 09/07/201 Batch #: 1	l Ana Ma	alyst: BRB 1trix: Soil							
Reporting Units: mg/kg	SAMPLE	SAMPLE / SAMPLE DUPLICATE RECOVER								
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag					
Chloride	74 4	76 3	3	20						
Lab Batch #: 869091 Date Analyzed: 09/02/2011 10:00 Date QC- Sample ID: 426978-001 D	Prepared: 09/02/201 Batch #: 1	l An: Ma	alyst: WRU 1trix: Soil							
Reporting Units: %	SAMPLE	/SAMPLE	DUPLIC	ATE REC	OVERY					
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag					
Percent Moisture	1.45	1 34	8	20						

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

XEI	XENCO-Environmental Lab of Texas								1	12	2600 dess	We sa,	C/ est I- Texa	1AIN 20 E 15 79	I OF ast 765	CL	IST	ODY I	REC	OR	DA	ND .	ANA Pi F	iLYS none [:] ax:	S/S : 43 43	RE()2-5()2-5(Q <i>UE</i> 63-1 63-1	≣S7 800 713	*			
	Project Manager:	Amber Canno	on															Pr	rojec	t Na	me:	Cig	gari	llo	sw	D f	#1					
	Company Name	Yates Petrole	eum Corpora	tion													_		Pi	rojec	:t #:	30-	015-	2164	43							
	Company Address:	105 South 4th	h Street															I	Proje	ect L	oc:	Edd	y Col	unty								
	City/State/Zip:	Artesia, NM	88210]								_			P	D#:	1032	2020									
	Telephone No:	575-748-4111	1/	π			Fax No		57	5-74	18-45	585				- +		Repo	rt Fo	rmai	:	×:	Stand	lard]tr	RP	['DES	
	Sampler Signature:	<u>Cimi</u>	and	ar	100		- e-mail:	•		<u>a</u>	<u>çan</u>	ino	na	yat	esp	eu	Siet	<u>im.co</u>						Analy	/ze F	or.					<u> </u>	ĺ
(lab use) ORDEF	oniy) R#: 426978/	42698	,						;	[Prese	ervat	ion &	# of C	ontair	ers		Matrix	58			TOT.	LP AL.	-							8, 72 hrs	
LAB # (lab use only)	FiEl	LD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Tôtal # of Contatners	Ice	HNO ₃	HCI	H-SO.	NaOH	Na ₂ S ₂ O ₃	Other / Snorty)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid NP=Non-Patable Specify Other	TPH 418 1 8015M 801	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalimity)	SAR / ESP / CEC Metric As As Bo C4 C2 OF U- 5	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 826	RCI	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24, 4	Standard TAT
001	Co	omp-#1		2"	2"	8/30/2011	9:33 AM		1	X	 						T	S	X					\Box		x	\Box		x		\Box	X
002	Co	omp-#2		2"	2"	8/30/2011	9 45 AM	\vdash	1	×				\downarrow	_	_		S	×			_		\downarrow	-	X	\square		<u>x</u>		\square	×
003	Co	omp-#3		2"	2"	8/30/2011	9:55 AM	╞	1	X				_	-		+	S	X		-	_		+	ļ	X	Ц		×		\square	×
		omp-#4		2"	2"	8/30/2011	10:06 AM											<u> </u>														×
				<u> </u>				<u> </u>				<u> </u>	$\left \right $	\downarrow	_	\downarrow	1		-					+		\square						_
	PLEASE PL		ES														F							+								
Special I	ON SEPAR	TPH:	T 8015B, BT	EX: 80)21B	& Chlorides.	Please show	v B7	TEX	(res	sults	s as	mg/	/kg.	Tha	nk y	/ou.				Labo Sam VOC	orato ple (s Fri	ory C Conta ee of	omm iners Hear	ient: Inta	s: ict? ice?			⊥ Gr) >	N NÆ	
Relinguist Relinguist	hed by hed by hed by	n	Date 09/01/11 Date Date	3:3 Til Til	me D PM me	Received by Received by Received by ELC	DT. /									0 0 0	ate ate		Time	3	Labe Cust Cust Sam t	els or ody : ody : ple H by Sa by Co	n con seals seals land imple ouner	tainer on cr Deliv r/Cher ?	r(s) onta oole rered nt Re UPS	iner(r(s) I 3p ?	(s) , DHL	cirix C	(SACACACACACACACACACACACACACACACACACACAC	1 , 2 2Loni		
(on regulat	~,					Line 1	Munda	<u> </u>	1						K	7.	11	P	I A	ดไ	Tem	pera	ture I	Jpon	Rec	eipt,			4.	1	°C	1



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	
Date/Time:	9211800	
Lab ID # :	426978/426981-01	
Initials:	LU	

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?	Tes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinguished / received?	res	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?	Yès	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	(No)	N/A	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	o.	Cooler 5 No.	
ibs 4, 1 °C ibs °C ibs °C	lbs	°C	bs	°c

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Tak	en:	
Check all that apply:	□ Cooling process has begun shortly after condition acceptable by NELAC 5. □ Initial and Backup Temperature confirm	sampling event and out of temperature 5.8.3.1.a.1. out of temperature conditions

Client understands and would like to proceed with analysis

Analytical Report 432252

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Cigarillo SWD # 1

30-015-21643

01-DEC-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

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

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco Phoenix Mobile (EPA Lab code: AZ00989): Arizona (AZ0758)



01-DEC-11



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

Reference: XENCO Report No: 432252 Cigarillo SWD # 1 Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 432252. 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. 432252 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

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



Sample Cross Reference 432252



Yates Petroleum Corporation, Artesia, NM

Cigarillo SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 1-4	S	11-02-11 09:00	4 - 4 ft	432252-001
Grab 1-5	S	11-02-11 09:05	5 - 5 ft	432252-002
Grab 1-6	S	11-02-11 09:10	6 - 6 ft	432252-003
Grab 2-4	S	11-02-11 09:15	4 - 4 ft	432252-004
Grab 2-5	S	11-02-11 09:20	5 - 5 ft	432252-005
Grab 2-6	S	11-02-11 09:25	6 - 6 ft	432252-006
Grab 3-4	S	11-23-11 09:20	4 - 4 ft	432252-007
Grab 3-5	S	11-23-11 09:25	5 - 5 ft	432252-008
Grab 3-6	S	11-23-11 09:30	6 - 6 ft	432252-009

× 733 800.52



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Cigarillo SWD # 1



 Project ID:
 30-015-21643

 Work Order Number:
 432252

Report Date: 01-DEC-11 Date Received: 11/29/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 432252

Yates Petroleum Corporation, Artesia, NM Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Tue Nov-29-11 12 15 pm

Report Date: 01-DEC-11

								Project Ma	nager:	Brent Barron	II		
	Lab Id:	432252-0	001	432252-002		432252-003		432252-(04	432252-0	05	432252-006	
Anglusia Requested	Field Id:	Grab 1-	.4	Grab 1-5		Grab 1-6		Grab 2-	4	Grab 2-5		Grab 2-	-6
Analysis Kequesieu	Depth:	4-4 ft	4-4 ft			6-6 ft	6-6 ft			5-5 ft		6-6 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-02-11	ov-02-11 09:00		09 05	Nov-02-11	09 10	Nov-02-11	09 15	Nov-02-11	09 20	Nov-02-11 09:25	
Anions by E300 Extracte													
	Analyzed:	Nov-29-11	17 45	Nov-29-11 17 45		Nov-29-11	17.45	Nov-29-11 17.45		Nov-29-11 17.45		Nov-29-11 17 45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4730	92 9	4890	92 7	4890	92 6	3890	47.2	1720	23.4	1270	19 2
Percent Moisture	Extracted:												
	Analyzed:	Nov-29-11	14.55	Nov-29-11	14.55	Nov-29-11	14.56	Nov-29-11	14.56	Nov-29-11	14 56	Nov-29-11	14 56
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.60	1 00	9.40	1.00	9 32	1.00	11.0	1 00	10 3	1.00	12 3	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 beet 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



Certificate of Analysis Summary 432252

Yates Petroleum Corporation, Artesia, NM Project Name: Cigarillo SWD # 1



Project Id: 30-015-21643 Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Nov-29-11 12:15 pm

Report Date: 01-DEC-11

Project Manager: Brent Barron II

	Lab Id:	432252-0	007	432252-0	008	432252-	009		
Analysis Dequested	Field Id:	Grab 3-	-4	Grab 3-	-5	Grab 3-	-6		
Anuiysis Kequesieu	Depth:	4-4 ft		5-5 ft		6-6 ft	t		
	Matrix:	SOIL		SOIL	,	SOIL			
	Sampled:	Nov-23-11	09 20	Nov-23-11	09 25	Nov-23-11	09 30		
Anions by E300	Extracted:								
	Analyzed:	Nov-29-11	17 45	Nov-29-11	17 45	Nov-29-11	17 45		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		443	186	497	513	1620	49 2		
Percent Moisture	Extracted:								
	Analyzed:	Nov-29-11	14 56	Nov-29-11	14.26	Nov-29-11	14.56		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		9 57	1.00	18 1	1 00	14 6	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 hability 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

Final 1.000



Flagging Criteria

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

BRL Below Reporting Limit.

RL	Reporting	L	imit	
		_		

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation
DL Method Detection Limit		
NC Non-Calculable		
+ Outside XENCO's scope of NEL	AC Accreditation. ^ NELAC	or State program does not offer Accreditation at this time.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Miami - Phoenix - Latin America

4143 Greenbriar Dr. Stafford, TX 77477 9701 Harry Hines Blvd , Dallas, TX 75220 5332 Blackberry Drive, San Antonio TX 78238 2505 North Falkenburg Rd, Tampa, FL 33619 5757 NW 158th St, Miami Lakes, FL 33014 12600 West I-20 East, Odessa, TX 79765 6017 Financial Drive, Norcross, GA 30071 3725 E Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



and the second se



Project Name: Cigarillo SWD # 1

Work Order #: 432252 Analyst: BRB	Da	ite Prepare	d: 11/29/20	11		Project ID: 30-015-21643 Date Analyzed: 11/29/2011									
Lab Batch ID: 875947 Sample: 8759	947-1-BKS	Batch	#: 1			Matrix: Solid									
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY													
Anions by E300 Analytes	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag					
Chloride	<0 840	20 0	19 9	100	20 0	20.3	102	2	75-125	20					

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





Project Name: Cigarillo SWD # 1

Work Order #: 432252									
Lab Batch #: 875947			Pro	oject ID:	30-015-216	543			
Date Analyzed: 11/29/2011	Date Prepared: 11/2	29/2011	А	nalyst: B	RB				
QC- Sample 1D: 432251-002 S	Batch #: 1		Γ	Matrix: S	01				
Reporting Units: mg/kg	MAT	RIX / MA	RIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[A]	[B]							
Chloride	780	205	971	93	75-125				
Lab Batch #: 875947									
Date Analyzed: 11/29/2011	Date Prepared: 11/2	29/2011	А	Analyst: E	RB				
QC- Sample ID: 432252-001 S	Batch #:		I	Matrix: S	oil				
Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY			
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[A]	[B]							
Chloride	4730	2210	7220	113	75-125				

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

BRL - Below Reporting Limit



Work Order #: 432252



Project Name: Cigarillo SWD # 1

Lab Batch #: 875947			Project I	D: 30-015-2	1643				
Date Analyzed: 11/29/2011 17:45 Date Prep	ared: 11/29/2011	Ana	yst:BRB						
QC- Sample ID: 432252-001 D Ba	ch #: 1	Mat	rix: Soil						
Reporting Units: mg/kg	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY				
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag				
Chloride	4730	5430	14	20					
Lah Batch #• 875863									
Date Analyzed: 11/29/2011 10:25 Date Prep	ared: 11/29/2011	Ana	lyst: BRB						
QC- Sample ID: 432217-001 D Ba	itch #: 1 Matrix: Soil								
Reporting Units: %	SAMPLE / SAMPLE DUPLICATE RECOV								
Percent Moisture	Parent Sample Result	Sample Duplicate Result	Control Limits %RPD	Flag					
Analyta	[A]	[B]							
Analyte	[A]	[B]							
Analyte Percent Moisture	[A] 1.79	[B] 1 94	8	20					
Analyte Percent Moisture Lab Batch #: 875865 Date Analyzed: 11/29/2011 14.56 Date Prep QC- Sample ID: 432252-003 D Bate	[A] 1.79 ared: 11/29/201 ich #: 1	[B] 1 94 Ana Mat	8 lyst: BRB rix: Soil	20					
AnalytePercent MoistureLab Batch #: 875865Date Analyzed: 11/29/2011 14.56QC- Sample ID: 432252-003 DBaReporting Units: %	[A] 1.79 ared: 11/29/201 tch #: 1 SAMPLE	[B] 1 94 Ana Mat / SAMPLE	8 lyst: BRB rix: Soil DUPLIC	20 ATE REC	OVERY				
Analyte Percent Moisture Lab Batch #: 875865 Date Analyzed: 11/29/2011 14.56 QC- Sample ID: 432252-003 D Bar Reporting Units: % Percent Moisture Analyte	[A] 1.79 ared: 11/29/201 tch #: 1 SAMPLE Parent Sample Result [A]	[B] 1 94 Ana Mat / SAMPLE Sample Duplicate Result [B]	8 lyst: BRB rix: Soil DUPLIC RPD	20 ATE REC Control Limits %RPD	OVERY Flag				

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

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

									1260 Ode	00 W ssa,	lest Tex	I-20 (as `	East 7976	: 5							P	'hor Fax	ne: 4 (; 4	32-5 32-5	63-1 63-1	800 713	, 1			
	Project Manager:	Amber Cannon														Pr	ojec	t Na	ıme:	Ci	gar	ille	o SV	٧D	#1					
	Company Name	ates Petroleum Corporat	ion														P	roje	ct #:	30-	015	<u>;-21</u>	643							
	Company Address 1	05 South 4th Street														I	Proj	ect l	Loc:	Edd	ly Co	ount	y							
	City/State/Zip:	10012 NM 88210															•	P	∩ #·	103	2020	i 1								
		11051a, 1110 00210														_		•	Ο			<u></u>			 1			—— —		
	Telephone No. 5	575-748-4111	·			_ Fax No	-	575-	-748-	4585	<u>)</u>				-	Repor	rt⊦o	rma	t:		Star	dare	đ	<u> </u>	1 IR	.RP	1		IPDE:	5
	Sampler Signature:	Imberla	m	\mathbf{w}	<i>۱</i>	e-mail:	:	1	aca	nno	<u>on(</u>	Dya	ates	petro	oleu	<u>um.co</u>	<u>2m</u>					An	alyze	For:						٦
(lab use	only)	- 0																		TO		7	7	Ţ-	Ţ_	Ţ	Π	T	٦,	
ORDE	R#: 4524	<i>71</i>	- <u></u>				_	_	Pr	eserva	ation	8.#0	f Conta	ainers	T	Matrix	158	Γ				- Se	-+-						48, 72 1	
AB # (lab use only)	EIE O	6005	eginning Depth	nding Depth	Date Sampled	Time Sampled	eld Fittered	stal # of Containers	Ge	5	4SO4	VaOH	VarS2O3	Vone	Unner (Speciry) W=Drnking Water St=Sludge	W = Groundwater S=Soil/Solid P=Nnn-Potable Specify Other	PH 4181 8015M 801	PH TX 1005 TX 1006	ations (Ca, Mg, Na, K)	nions (Cl, SO4, Alkalinity)	AR / ESP / CEC	letals As Ag Ba Cd Cr Pb Hg 5	olatries eminulatries	TEX 8021B/5030 or BTEX 826	ō	ORM	hlorides		USH TAT (Pre-Schedule) 24, 4	tandard TAT
	FIELD	CODE			11/2/2011	9.00 AM	ļ.	Ť			+	-		2 10		<u>o</u> z S	F	F-	Ŭ	Ā	ŝ	5	<u>> 0</u>	<u>, 1 m</u>	<u><u> </u></u>	Z	×	+	╇	۳ ۲
02	Grat	o 1-5	5'	5'	11/2/2011	9:05 AM	††				╈	+	+		+-	s	┢	+				+	-+-	+	+		x	-	+-	X
22	Grat	o 1-6	6'	6'	11/2/2011	9:10 AM		1		1	-	\top	11		╞	s	Τ				\top		+	1	1		x	T	T	X
04	Grat	o 2-4	4'	4'	11/2/2011	9.15 AM		1								S	Γ										x			X
05	Grat	0 2-5	5'	5'	11/2/2011	9:20 AM		1								S											x			x
no	Grat	0 2-6	6'	6'	11/2/2011	9:25 AM		1								S											x			X
01	Grat	3-4	4'	4'	11/23/2011	9 [.] 20 AM		1								S						\bot				\square	x		┶	Х
33	Grat	o 3-5	5'	5'	11/23/2011	9.25 AM		1		1.						S				_		\downarrow		\perp	<u> </u>		X			×
01	Grat	3-6	6'	6'	11/23/2011	9:30 AM		1				-			╀	S	┨				_	4		╞	_	$\left - \right $	X			×
		,	<u> </u>						+	┿	+	-	+		+		╞	<u> </u>	$\left \cdot \right $			+	-+-	╇	╞	$\left - \right $	┝─┤	-+	+-	+
	· · · · · · · · · · · · · · · · · · ·		<u> </u>				┞─┼╴	╉		+	╀	+	┼╌┽	_	-			-	-	-	-+		-+-	+	┢─	\vdash	┝╼╂	+		+
		<u> </u>	-				$\left - \right $	╉		┥	+	+	+		+		╞	-		+		┿		+	┼──	\vdash		-+-	+-	
·						·····		╉	+-	╈	╈	╀╌	+	-		<u>-</u>				\uparrow	\uparrow	╈	+	\uparrow			-	+		
Special I Relinguist Relinguist	nstructions [.] We Canned by	Date 111/28/11 Date	Ti 32 Ti	me Offo me	Received by										Date		Time		Lab Sam VOC Labé Cust Cust Sam	ple s F ody ody ple	ory Cont ree c seal seal Hand	Com aine f He ntail s or s or d De	nmen ers int eadsp her(s) hort cont cool elivere	ts: act? ace? anei anei èr(s) ed	ر المراجع	ه ر کرد : ب کر د :			zzrzzz	
Relinquish	ed by	Date	Tu	ne		drea	FR	n.		 1	_				Date		Time 2`1	, L	Tem	ογ S ογ C pera	ampl ourie ature			iep 'S Cjl	년 1.	<i>5</i> (EedE	ג⊊ ק	one S	tar

N 5 8 4 5 5 4 5 4 1



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

Prelogin / Nonconformance Report - Sample Log-In

Client	Yates Petroleum
Date/Time:	1129.11 12:15
Lab ID # :	432757
Initials:	AE

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></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?	Tes	No	NA	
13. Sample container intact?	Tes	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	ó.	Cooler 5 No.	
libs 4, 9°C libs °C libs	°C lbs	0	C libs	°C

Nonconformance Documentation

Contact:	Contacted by:		Date/Time:	
Regarding:				
		/		
Corrective Action Tak	en:			
				<u>.</u>
Check all that apply:	Cooling process has begun shortly condition acceptable by NEL.	/ after sampling ev AC 5.5.8.3.1.a.1.	ent and out of temperature	
• • •	□ initial and Backup Temperature co □ Client understands and would like	nfirm out of temper to proceed with an	rature conditions valysis	