

Analytical Report- 429605	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	10/4/2011	Comp/Auger	6"		de S		45.7	8040
Comp-01.0	Release Area	10/4/2011	Comp/Auger	12"					4310
Comp-01.5	Release Area	10/4/2011	Comp/Auger	18"	44.	V 70 . V			2830
Analytical Report- 430848	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	11/1/2011	Comp/Auger	6"	ND	ND	108	108	-1
Comp-01.0	Release Area	11/1/2011	Comp/Auger	12"	ND	ND	ND	ND	
Comp-01.5	Release Area	11/1/2011	Comp/Auger	18"	ND	ND	ND	ND	ile Second
Approximately 1.	5 feet of impa	icted soils we	re excavated/h	auled to an N	imocd a	ipprove	d facility		7 THE
Analytical Report- 430848	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-02.0	Release/ Excavation	2/1/2012	Comp/Auger	24"			7.1		38.0
Comp-02.5	Release/ Excavation	2/1/2021	Comp/Auger	30"					47.8
Comp-03.0	Release/ Excavation	2/1/2012	Comp/Auger	36"					39.9

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 80', per Trend Map).

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

Released: 3 B/O & 1100 B/PW; Recovered: 3 B/O & 1040 B/PW. Release Date: 8/31/2011



**Knoll AOK Federal #1** 

30-015-28127

Section 3, T24S-R29E

**Eddy County, NM** 

ENVIRONMENTAL SAMPLE DIAGRAM

(Not to Scale)

February 29, 2012

Prepared by YPC Environmental Division

# **Analytical Report 436237**

# for Yates Petroleum Corporation

Project Manager: Robert Asher
Knoll AOK Federal # 1
30-015-28127
13-FEB-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



13-FEB-12

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St.

Artesia, NM 88210

Reference: XENCO Report No: 436237

Knoll AOK Federal # 1
Project Address: Eddy County

#### Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 436237. 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. 436237 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Brent Barron II** 

Odessa Laboratory Manager

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# **Sample Cross Reference 436237**

### Yates Petroleum Corporation, Artesia, NM

Knoll AOK Federal # 1

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
Comp-02.0	S	02-01-12 11:09	24 - 24 In	436237-001
Comp-02.5	S	02-01-12 11:21	30 - 30 In	436237-002
Comp-03.0	S	02-01-12 11:31	36 - 36 In	436237-003

### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Knoll AOK Federal # 1



Project ID:

30-015-28127

Report Date: 13-FEB-12

Work Order Number: 436237

Date Received: 02/02/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-881041 Anions by E300

RPD recovered outside QC limits between the sample and sample duplicate.

Page 4 of 11



Project Id: 30-015-28127

Project Location: Eddy County

Contact: Robert Asher

# Certificate of Analysis Summary 436237

### Yates Petroleum Corporation, Artesia, NM

Project Name: Knoll AOK Federal #1

Date Received in Lab: Thu Feb-02-12 11:55 am

Report Date: 13-FEB-12

Project Manager: Brent Barron II

								1 Toject :Vlanager:	 ,
	Lab Id:	436237-0	001	436237-0	02	436237-0	03		
Analysis Requested	Field Id:	Comp-02	2.0	Comp-02	5	Comp-03	.0		
Anuiysis Kequesteu	Depth:	24-24 I	n	30-30 II	ո	36-36 lı	1		
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Feb-01-12	11:09	Feb-01-12 1	1:21	Feb-01-12 1	1:31		
Anions by E300	Extracted:								
	Analyzed:	Feb-11-12	11:00	Feb-11-12 1	1.00	Feb-11-12 I	1.00		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		38.0	0 924	47.8	0 922	39 9	0 925		
Percent Moisture	Extracted:								
	Analyzed:	Feb-03-12	09:00	Feb-03-12 0	9.00	Feb-03-12 0	9.00		
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		9.09	1 00	8.94	1.00	9 15	1 00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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John Re

Brent Barron II Odessa Laboratory Manager



# Flagging Criteria

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

BRL Below Reporting Limit.

**RL** Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

POL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

**DL** Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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Page 6 of 11 Final 1.000

# **Environmental Lab of Texas**

A Xenco Laboratories Company

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

	Project Manager:	Robert Ashe	r														_	P	rojec	t Na	me: _	Kn	oll /	401	K F	<u>ede</u>	ral	#1				
	Company Name	Yates Petrol	eum Corpora	ation								,, <u>.</u>					_		Pi	ojec	:t #:_	30-0	15-2	2812	27							
	Company Address:	: 105 South 4	th Street														_		Proj	ect l	.oc:	Eddy	/ Cou	ınty								
	City/State/Zip:	Artesia, NM	88210																	P	O #: _	1056	32									
	Telephone No:	575-748-421	7				Fax No:		579	5-748	3-466	 32					-	Repo	rt Fo	rma	t:	x s	Stanc	ard			TRE	٦P	[	ДΝ	PDES	S
	Sampler Signature:		7.4	7.	9		e-mail:						sne	etro	leu	m c	-	•														
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LAB # (iab use only)	FIFI	_D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO3	HC!	H <sub>2</sub> SO <sub>2</sub>	NaOH	None None	Other ( Specify)	DW=Drinking Water SL≈Sludge	Ē	TPH 4181 8015M	TX 1005 TX	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, Alkalinity)	SP / CEC	Metals As Ag ba Cd Cr Pb Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M	Chlorides		RUSH TAT (Pre-Schedule) 24, 48,	Standard TAT
01		np-02.0		24"	24"	2/1/2012	11:09 AM	_	Ę.	-		7	1	+	-   -		<del> </del>	S	<u> </u>	-	0	◀	0)	2 /2	10	<del> </del>		-	х		I	X
٥٦		mp-02.5		30"	30"	2/1/2012	11:21 AM						1	1	1	+		S											х	_		X
<u>ئ خ</u>	Con	mp-03.0		36"	36"	2/1/2012	11:31 AM										L	s	1	_		_	1			╄	-		X	$\dashv$	+	+×
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Special Ir	nstructions:	CHLO	RIDES OF	NLY. A	LL res	sults in mg/kg	. Thank you.						l_				1_		1	<u>.L.</u>	Lat	oral	ory (	Com	ment	ls:	د شد	<u></u>				
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#### **XENCO Laboratories**

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

Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010

Page 1 of 1

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

Prelogin / Noncomomiance Repor	t - Sample	Log-m		
client: Yates Retroleum				
Date/Time: 2.2.12.11.55				
Lab ID#: 436237				
Initials:				
Sample Receipt Chec	klist			
1. Samples on ice?	Blue	Water	(No)	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No.		Cooler 5 No.	
lbs //.() °C lbs °C lbs °	C lbs	°C	lbs	°C
Nonconformance Docum	entation			
Contact: Contacted by:		Date/Time:_		
Regarding:				
Corrective Action Taken:				

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

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

# **Analytical Report 430848**

for

### **Yates Petroleum Corporation**

Project Manager: Robert Asher

**Knoll AOK Federal #1** 

30-015-28127

10-NOV-11

Collected By: Client



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

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



10-NOV-11

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St.

Artesia, NM 88210

Reference: XENCO Report No: 430848

Knoll AOK Federal # 1
Project Address: Eddy County

#### Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 430848. 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.

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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. 430848 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Brent Barron II** 

Odessa Laboratory Manager

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# **Sample Cross Reference 430848**

# Yates Petroleum Corporation, Artesia, NM

Knoll AOK Federal # 1

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
Comp-00.5	S	11-01-11 13:26	6 - 6 In	430848-001
Comp-01.0	S	11-01-11 13:38	12 - 12 In	430848-002
Comp-01.5	S	11-01-11 13:50	18 - 18 In	430848-003





Client-Name: Yates Petroleum Corporation

Project Name: Knoll AOK Federal # 1

Project ID:

30-015-28127

Work Order Number: 430848

Report Date: 10-NOV-11

Date Received: 11/03/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-874338 BTEX by EPA 8021B

SW8021BM

Batch 874338, Benzene, Ethylbenzene, m\_p-Xylenes recovered below QC limits in the Matrix Spike. o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Toluene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 430848-001, -002, -003.

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

SW8021BM

Batch 874338, Benzene, Ethylbenzene, m\_p-Xylenes , o-Xylene RPD was outside QC limits. Samples affected are: 430848-001, -002, -003

Page 4 of 15



## Certificate of Analysis Summary 430848

### Yates Petroleum Corporation, Artesia, NM

Project Name: Knoll AOK Federal #1

Project Id: 30-015-28127 Contact: Robert Asher

Project Location: Eddy County

**Date Received in Lab:** Thu Nov-03-11 10:35 am

Report Date: 10-NOV-11
Project Manager: Brent Barron II

	,							Project Manager:	DICIT DAITOR II	
	Lab Id:	430848-0	001	430848-0	002	430848-0	003			
Analysis Requested	Field Id:	Comp-00	).5	Comp-0	1.0	Comp-0	1.5			
Analysis Requesieu	Depth:	6-6 In		12-12	n	18-18	in			
	Matrix:	SOIL		SOIL		SOIL	,		-	
	Sampled:	Nov-01-11	13:26	Nov-01-11	13:38	Nov-01-11	13:50		-	
BTEX by EPA 8021B	Extracted:	Nov-08-11	09·24	Nov-08-11	09·24	Nov-08-11	09:24			
	Analyzed:	Nov-08-11	17.50	Nov-08-11	18:12	Nov-08-11	18.35			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		ND	0 00105	ND	0 00105	ND	0 00105			
Toluene		ND	0 00210	ND	0.00210	ND	0.00211			
Ethylbenzene		ND	0.00105	ND	0.00105	ND	0.00105			
m_p-Xylenes		ND	0 00210	ND	0 00210	ND	0 00211			
o-Xylene		ND	0 00105	ND	0.00105	ND	0 00105			
Total Xylenes		ND	0.00105	ND	0 00105	ND	0 00105			
Total BTEX		ND	0 00105	ND	0 00105	ND	0 00105			
Percent Moisture	Extracted:									
	Analyzed:	Nov-04-11	10:40	Nov-04-11	10:40	Nov-04-11	10:40			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		4.73	1.00	4.57	1.00	5.10	1.00			
TPH By SW8015B Mod	Extracted:	Nov-07-11	14:15	Nov-07-11	14:15	Nov-07-11	14:15			
	Analyzed:	Nov-08-11	02:35	Nov-08-11	03.11	Nov-08-11	03.47			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		ND	15.7	ND	15.7	ND	15 8			
C10-C28 Diesel Range Hydrocarbons		108	15 7	ND.	15.7	ND	15.8			
Total TPH		108	15.7	ND	15.7	ND	15.8			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and issults expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Job R



### Flagging Criteria

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

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

**DL** Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa. TX 79765	(432) 563-1800	(432) 563-1713
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

# **Environmental Lab of Texas**

A Xenco Laboratories Company

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

	Project Manager: Robert Asl	her															Pro	ject	Nam	e: <u>K</u>	no	IΑ	<u>OK</u>	<u>Fe</u>	der	al H	<u>-1</u>			
	Company Name Yates Petr	oleum Corporat	tion													-		Pro	ject	#: <u>3</u> (	<u> </u>	5-28	312	7						
	Company Address: 105 South	4th Street														_	P	rojed	t Lo	<b>c</b> : <u>E</u> c	ddy C	Coun	ty							
	City/State/Zip: Artesia, N	M 88210														•			РΟ	#: <u>10</u>	563	2								
	Telephone No: <u>575-748-4</u> :	217	·—			Fax No:		575	-748	3-466	52					Re	port	Fогг	nat:	×	] Sta	anda	rd		Τ	RRP			NPDE	.s
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(lab use	only)																				TCLP	_	laiyz	e For	Ħ	T	Τ	П	72 hrs	
ORDE	R#: 120045								F	rese	rvation	&#</td><td>of Co</td><td>ontaine</td><td>rs</td><td>Ма</td><td>trix</td><td>8015B</td><td></td><td>T</td><td>T</td><td>S,</td><td></td><td></td><td>2</td><td></td><td></td><td>   </td><td><b>á</b>,</td><td></td></tr><tr><th>LAB # (lab use only)</th><th>FIELD CODE</th><th></th><th>Beginning Depth</th><th>Ending Depth</th><th>Date Sampled</th><th>Time Sampled</th><th>Field Filtered</th><th>Total #, of Containers</th><th>eo </th><th>HNO<sub>3</sub></th><th>HCI</th><th>12504</th><th>NaOH</th><th>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></th><th>Other (Specify)</th><th>DW=Drinking Water SL=Sludge</th><th></th><th>418.1 8015M</th><th>TPH. TX 1005 TX 1006</th><th>Cations (Ca, Mg, Na, K) Anions (Cl. SO4, Alkalinity)</th><th>SAR / ESP / CEC</th><th>Metals As Ag Ba Cd Cr Pb Hg Se</th><th>Volatiles</th><th>Semivolatiles</th><th>BIEX 80218/5030 of BIEX 8250</th><th>N O R.M</th><th>Chlorides</th><th></th><th>RUSH TAT (Pre-Schedule) 24,</th><th></th></tr><tr><td>0(</td><td>Comp-00.5</td><td></td><td>6"</td><td>6"</td><td>11/1/2011</td><td>1:26 PM</td><td></td><td></td><td>х</td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td><td><u>~</u></td><td>х</td><td></td><td></td><td>L</td><td></td><td></td><td></td><td>x</td><td></td><td><math>\downarrow</math></td><td><math>\sqcup \downarrow</math></td><td></td><td>X</td></tr><tr><td><u>0}</u></td><td>Comp-01.0</td><td></td><td>12"</td><td>12"</td><td>11/1/2011</td><td>1:38 PM</td><td></td><td></td><td>Х</td><td>_</td><td><math>\perp</math></td><td></td><td><math>\perp</math></td><td><math>\perp</math></td><td></td><td></td><td>3</td><td>х</td><td>_</td><td></td><td>퇶</td><td>_</td><td></td><td></td><td>x L</td><td>_</td><td>↓_</td><td><math>\sqcup</math></td><td><math>\bot</math></td><td>X</td></tr><tr><td>03</td><td>Comp-01.5</td><td></td><td>18"</td><td>18"</td><td>11/1/2011</td><td>1:50 PM</td><td></td><td></td><td>X</td><td>_</td><td>_</td><td>_</td><td><math>\bot</math></td><td></td><td></td><td></td><td>3</td><td>X</td><td>_ </td><td>_ _</td><td><math>\perp</math></td><td></td><td></td><td>_ :</td><td>X L</td><td></td><td><math>\downarrow</math></td><td><math>\sqcup</math></td><td><math>\dashv</math></td><td> ×</td></tr><tr><td></td><td></td><td></td><td><u>                                     </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td><math>\dashv</math></td><td><math>\bot</math></td><td>+</td><td>+</td><td>ļ</td><td></td><td></td><td>-</td><td>_</td><td>_</td><td></td><td><u>                                     </u></td><td></td><td>-</td><td></td><td>+</td><td>┼</td><td><math>\dashv</math></td><td>+</td><td>+-</td></tr><tr><td></td><td></td><td></td><td><del> </del></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td>- -</td><td>+</td><td></td><td></td><td></td><td></td><td>4</td><td>-</td><td>+</td><td>+</td><td>-</td><td>H</td><td><math>\dashv</math></td><td>-</td><td>+</td><td>+</td><td>╁╌┼</td><td>-</td><td>+-</td></tr><tr><td><del></del></td><td></td><td></td><td><del> </del></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td>-</td><td></td><td><math>\vdash</math></td><td></td><td></td><td>+</td><td>+</td><td>+-</td><td>+</td><td>-</td><td><math>\vdash</math></td><td><math>\dashv</math></td><td>+</td><td>+</td><td>+-</td><td><math>\vdash \vdash</math></td><td>_</td><td>-</td></tr><tr><td></td><td></td><td></td><td><del> </del>-</td><td></td><td></td><td></td><td></td><td>_</td><td></td><td><math>\dashv</math></td><td></td><td>+</td><td>+</td><td></td><td>H</td><td></td><td></td><td>+</td><td>+</td><td>+</td><td>╁</td><td>_</td><td><math>\vdash</math></td><td>+</td><td>+-</td><td>+</td><td>+-</td><td><math>\vdash</math></td><td>十</td><td>+</td></tr><tr><td><del></del></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td><math>\dashv</math></td><td>+</td><td>╁</td><td>十</td><td>+</td><td></td><td></td><td></td><td><math>\dashv</math></td><td>+</td><td>+</td><td>+</td><td>-</td><td><math>\dashv</math></td><td>+</td><td>+</td><td>+</td><td><math>\dagger</math></td><td><math>\Box</math></td><td>+</td><td>+</td></tr><tr><td></td><td></td><td><del></del></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>+</td><td>1</td><td>+</td><td>1</td><td></td><td></td><td></td><td></td><td><math>\dagger</math></td><td>╁</td><td>T</td><td></td><td></td><td>1</td><td>+</td><td>+</td><td>T</td><td></td><td>十</td><td>+</td></tr><tr><td>Special</td><td>Instructions: TPI</td><td>1 8015M, BTI</td><td>EX 80:</td><td>21B O</td><td>NLY. 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T</td><td>han</td><td>ık yo</td><td>ou.</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>s</td><td></td><td>e Co</td><td>ntair</td><td>ners</td><td>nts: Intac</td><td></td><td></td><td></td><td>3</td><td>N.</td><td>u Y</td></tr><tr><td>Relinquis</td><td>0</td><td>Date 11/02/11</td><td>l</td><td>me PM</td><td>Received by:</td><td></td><td></td><td></td><td></td><td>·</td><td></td><td></td><td></td><td></td><td>Da</td><td>te</td><td>T -</td><td>Time</td><td>L C</td><td>abels ustoo</td><td>on d</td><td>onta</td><td>iner on co</td><td>s) ntain</td><td>ু er(s)</td><td>) } }</td><td>α<u>υ,</u> <b>γ</b> </td><td></td><td>N N</td><td>,</td></tr><tr><td>Robert As Relinquis</td><td>hed by:</td><td>Date</td><td></td><td>me</td><td>Received by.</td><td>·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Da</td><td>te</td><td>-</td><td>Time</td><td></td><td>ampl by</td><td>e Ha Sam</td><td>nd D pler/0</td><td>elive Client</td><td>Rep</td><td>?</td><td></td><td></td><td>\$\frac{\pi}{2}\rightarrow}</td><td>N' N</td><td></td></tr><tr><td>Relinquis</td><td>ned by: Fldex</td><td>Date</td><td>Tir</td><td>ne</td><td>Received by ELC</td><td>17/ldin</td><td>is</td><td>m</td><td></td><td></td><td></td><td></td><td></td><td>//</td><td>Da '-,3.</td><td></td><td>1</td><td>Time</td><td>5 T</td><td>by empe</td><td>Cour</td><td>re U</td><td>Z g</td><td>UPS Cecei</td><td>DI > ipt:</td><td>HL ———</td><td>Éec</td><td>4.5</td><td>Lone S</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><del></del>_</td><td></td><td></td><td></td><td>_ =</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td></tr></tbody></table>																		



#### 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: 19tes Petroleum					
Date/Time:   3   1   0 35					
Lab ID#: 430848					
initials: WR					
Sample R	eceipt Check	list			
1. Samples on ice?		Blue	Water	No	
2. Shipping container in good condition?		CYPE	No	None	
3. Custody seals intact on shipping container (cooler) and	bottles?	Yes	No	N/A	
4. Chain of Custody present?		Yes	No		
5. Sample instructions complete on chain of custody?		Yes	No		
6. Any missing / extra samples?		Yes	(No)		
7. Chain of custody signed when relinquished / received?		Yes	No		
8. Chain of custody agrees with sample label(s)?		Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody	?	Yes	No		
11. Samples in proper container / bottle?	· · · · · · · · · · · · · · · · · · ·	Yes	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s)?		(Yes	No		
15. All samples received within sufficient hold time?		Yes	No		
16. Subcontract of sample(s)?		Yes	No	(N/A	
17. VOC sample have zero head space?		Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 I	No.	Cooler 4 No.		Cooler 5 No.	
lbs 4.5°c lbs °c	lbs °C	lbs	°c	lbs	°C
Nonconforma	ance Docume	ntation			
Contact:Contacted by:			Date/Time:_		
Regarding:			<del></del>	<del> </del>	
Corrective Action Taken:					
Observed the state of the state					<del></del>

Check all that apply: 

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

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

# **Analytical Report 429605**

for

### **Yates Petroleum Corporation**

Project Manager: Robert Asher

**Knoll AOK Federal #1** 

30-015-28127

24-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



24-OCT-11

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St.

Artesia, NM 88210

Reference: XENCO Report No: 429605

Knoll AOK Federal #1
Project Address: Eddy County

#### Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 429605. 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. 429605 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.

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# **Sample Cross Reference 429605**

### Yates Petroleum Corporation, Artesia, NM

Knoll AOK Federal #1

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
Comp-00.5	S	10-04-11 11:10	6 - 6 In	429605-001
Comp-01.0	S	10-04-11 11:26	12 - 12 In	429605-002
Comp-01.5	S	10-04-11 11:40	18 - 18 In	429605-003

### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: Knoll AOK Federal #1



Project ID:

30-015-28127

Work Order Number: 429605

Report Date: 24-OCT-11 Date Received: 10/14/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872513 Percent Moisture

The RPD between the Sample and Sample Duplicate is outside of the QC limits. This is most

likely due to sample non-homogeneity.



Project Id: 30-015-28127

Project Location: Eddy County

Contact: Robert Asher

# Certificate of Analysis Summary 429605

### Yates Petroleum Corporation, Artesia, NM

Project Name: Knoll AOK Federal #1

Date Received in Lab: Fri Oct-14-11 01:52 pm

Report Date: 24-OCT-11

Project Manager: Brent Barron II

								r roject ivranager.	Brent Burton II	
	Lab Id:	429605-0	001	429605-0	02	429605-0	03			
Analysis Paguastad	Field Id:	Comp-00	0.5	Comp-01	.0	Comp-01	. 5			
Analysis Requested	Depth:	6-6 In		12-12 I	n	18-18 Iı	n			
	Matrix:	SOLIE	)	SOLIE	)	SOLID	)			
	Sampled:	Oct-04-11	11:10	Oct-04-11 1	1:26	Oct-04-11 1	1:40			
Anions by E300	Extracted:						'			
	Analyzed:	Oct-17-11	18.01	Oct-17-11	8 01	Oct-17-11 1	8:01			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		8040	89.6	4310	43.4	2830	43 4			
Percent Moisture	Extracted:								:	
	Analyzed:	Oct-17-11	14.00	Oct-17-11 1	4:00	Oct-17-11 1	4:00			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		6.28	1.00	3.21	1.00	3 13	1 00			

Page 5 of 11

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 - Latın 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.
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# **Environmental Lab of Texas**

A Xenco Laboratories Company

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

	Project Manager: Robert Asher									-	Project Name: Knoll AUK Federal #1																				
	Company Name Yates Petroleum Corporation										-	Project #: 30-015-28127																			
	Company Address: 105 South 4th Street										Project Loc: Eddy County																				
	City/State/Zip: Artesia, NM 88210										PO #: 105632																				
	Telephone No:	575-748-4217				Fax No:		575	5-748	3-466	62					. 1	Repo	ort Fo	rma	t:	X	Stan	dard			TRI	RP	1	□N	IPDES	;
	Sampler Signature:	204			<del></del>	e-mail:		<u>bo</u>	ba	@у	ate	spe	etro	leu	m.c	om	<u></u>	_					Δna	lyze f	or:						ı
(lab use	1100660	(1:12 a60b	ey .												·			Ŀ			T01				Ě					. 72 hrs	
ORDEF	R#: (F 1) 19	7 129600	T	γ	T				F	rese	rvatio	on & #	of Co	ntaine	rs	_^	latrix	185	ي				g Se		3260					24, 48,	$\vdash$
LAB # (lab use only)	FIEL	_D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	lce	HNO <sub>3</sub>	HCI	H <sub>2</sub> SO <sub>4</sub>	NaOH Na.S.O.	None	Other ( Specify)	DW=Dnnking Water SL=Sludge	ter S=Sou	NP=Non-Potable Specify Other TPH: 418.1 8015M 80	TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl. SO4, Alkalınıty)	SP / CEC	Metals As Ag Ba Cd Cr Pb Hg	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM	Chlorides		a-Schedule)	Standard TAT
01	Comp-00.5		6"	6"	10/4/2011	11:10 AM			х								s	Х							x	_	Ш	x			X
02	2 Comp-01.0			12"	10/4/2011	11:26 AM			x								s	_ x							x			х			·X
03	Cor	mp-01.5	18"	18"	10/4/2011	11:40 AM			х			_	$\perp$	_	$\perp$	_	s	X	_				_	L	X			x	4	_	X
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	nstructions:	TPH 8015M, BT	EX 80	21B &	Chlorides.	ALL results in	mg	/kg.	. Th	nank	k yo	u.	<u> </u>		<u> </u>			- <b></b>	1	San	nple	Con	ainei	nent s int	act?		. 133	5	) () ()	N N	£( ' '
Relinquish Robert As Relinquish	her Rusiua	Date 10/13/11 Date	11.4	ne 7 AM ne	Received by:	<u>.</u> .									Da Da	_	10	Tim Tim	A	Lab Cus Cus San	els d tody tody nple by S	n co seal seal Hand ampl	ntain s on s on d Del er/Clie	er(s) contr cook ivere	ainer er(s) d ep. ?	(s)		Fedi	5 5	<b>∀ N</b> ≥ N	-
Relinquish	Let In.	Date ls/4/10	1	ne -{}	Received by ELC	OT:	٠		<u> </u>					ìc	Da	- 1		Tim : 5		Ten	) L nper	ture	7 Upo	UP ( . (	ζ ce∎ipi	:			3.0	°C	



#### XENCO Laboratories

Attanta, 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: 10/14/	11 13:52					
Lab ID#: 42959		intericles				
Initials:	97-7-13	······································				
		Sample Receipt Ch	ecklist			
1. Samples on ice?			Blue	Water	No	
2. Shipping container is	n good condition?		(Yes)	No	None	
		ner (cooler) and bottles?	(Yes)	No	N/A	
4. Chain of Custody pro			(Yes)	No		
5. Sample instructions		of custody?	Yes	No		****
6. Any missing / extra			Yes	(No)		
7. Chain of custody sig		ned / received?	Yes	No		
8. Chain of custody ag	rees with sample lab	el(s)?	(Yes)	No		
9. Container labels legi	ble and intact?		Yes	No		
10. Sample matrix / pro	perties agree with c	hain of custody?	Yes	No		
11. Samples in proper	container / bottle?		Yes	No		
12. Samples property p	reserved?		Yes	No	N/A	
13. Sample container is	ntact?		Yes	No		
14. Sufficient sample a	mount for indicated	test(s)?	Yes	No		
15. All samples receive	ed within sufficient h	old time?	Yes	No		
16. Subcontract of san	ple(s)?		Yes	No	(N/A)	
17. VOC sample have a	ero head space?		(Yes)	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 N	o	Cooler 5 No.	
lbs 3 °	C lbs	°C lbs	°C lbs	0(	C lbs	°C
		Nonconformance Doc	umentation			
Contact:	Contac	ted by:		Date/Time:		
				2000		
Regarding:	<del></del>					
Corrective Action Take	en:					
*****	•					ž, • <u>.</u>
,						
Check all that apply:	□Cooling process	has begun shortly after san	pling event and	out of temp	erature	•
	condition a	cceptable by NELAC 5.5.8.3	.1.a.1.	-		•
	unidai and Backu	p Temperature confirm out	oi temperature co	enditions		

☐ Client understands and would like to proceed with analysis