

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	Contact
Address 104 S. 4 <sup>th</sup> Street	Telephone No. 575-748-1471
Facility Name Humidor BML State Com #5H	Facility Type Battery

Surface Owner State	Mineral Owner State	API No. 30-015-42755
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**LOCATION OF RELEASE**

Unit Letter I	Section 26	Township 24S	Range 27E	Feet from the 2365	North/South Line South	Feet from the 575	East/West Line East	County Eddy
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Latitude 32.20188 Longitude 104.1544

**NATURE OF RELEASE**

Type of Release Drilling Mud	Volume of Release 200 B/DM	Volume Recovered 0 B/DM
Source of Release Mud suction pit	Date and Hour of Occurrence 2/19/2015; AM	Date and Hour of Discovery 2/19/2015; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 2/20/2015; AM (Email)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A mud tank was being moved, the tank shifted and slide off and broke a 6" valve on the back of the suction pit, causing the drilling mud release.

Describe Area Affected and Cleanup Action Taken.\*

The approximate area of the release was 20' x 100' (on the drilling pad) and 10' x 300' (off the drilling pad). Impacted soils will be excavated/hailed to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure.

**Depth to Ground Water: 50-99' (approximately 50', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10. Based on attached remedial actions and analytical results, Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

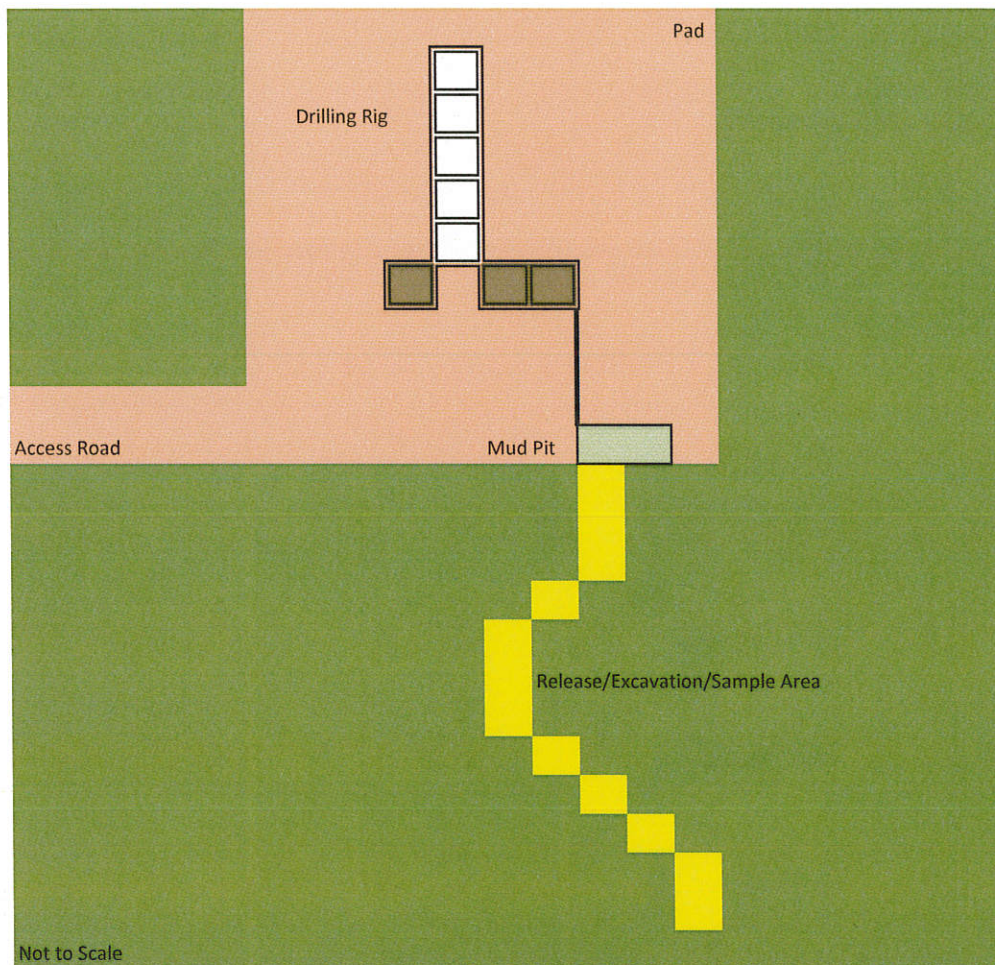
Signature: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Robert Asher	Approved by Environmental Specialist:		
Title: NM Environmental Regulatory Supervisor	Approval Date:	Expiration Date:	
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: October 17, 2016	Phone: 575-748-4217	<b>2RP-2861</b>	

\* Attach Additional Sheets If Necessary



NW

NE



Analytical Report-H500881 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
C00.50 N	Release Area	4/1/2015	Comp/Auger	6"	<0.3	<10.0	<10.0	<20.0	1340
C01.0 N	Release Area	4/1/2015	Comp/Auger	12"	ND	ND	ND	ND	208
C01.5 N	Release Area	4/1/2015	Comp/Auger	18"	ND	ND	ND	ND	32
Analytical Report-1609847 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S 0.25 E	Release Area	9/13/2016	Comp/Auger	4" (18" BSL)	ND	ND	ND	ND	ND
S 1.0 E	Release Area	9/13/2016	Comp/Auger	12" (24" BSL)	ND	ND	ND	ND	ND
Analytical Report-H500881 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
C00.50 N	Release Area	4/1/2015	Comp/Auger	6"	<0.3	<10.0	<10.0	<20.0	784
C01.0 N	Release Area	4/1/2015	Comp/Auger	12"	ND	ND	ND	ND	352
C01.5 N	Release Area	4/1/2015	Comp/Auger	18"	ND	ND	ND	ND	48
Analytical Report-1609847 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S 0.25 E	Release Area	9/13/2016	Comp/Auger	4" (18" BSL)	ND	ND	ND	ND	ND
S 1.0 E	Release Area	9/13/2016	Comp/Auger	12" (24" BSL)	ND	ND	ND	ND	ND
Analytical Report-H500881 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
C00.50 N	Release Area	4/1/2015	Comp/Auger	6"	<0.3	<10.0	<10.0	<20.0	816
C01.0 N	Release Area	4/1/2015	Comp/Auger	12"	ND	ND	ND	ND	112
C01.5 N	Release Area	4/1/2015	Comp/Auger	18"	ND	ND	ND	ND	80
Analytical Report-1609847 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S 0.25 E	Release Area	9/13/2016	Comp/Auger	4" (18" BSL)	ND	ND	ND	ND	ND
S 1.0 E	Release Area	9/13/2016	Comp/Auger	12" (24" BSL)	ND	ND	ND	ND	ND

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 70', per Trend Map).

All results are ppm. BLS - Below Surface Level

Released: 200 B/DM; Recovered: 0 B/DM. Release Date: 2/19/2015

SW

Impacted soils excavated.

SE



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

September 23, 2016

Robert Asher  
Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210  
TEL: (575) 748-4195  
FAX

RE: Humidor BML State Com #5H

OrderNo.: 1609847

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/15/2016 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 22, 2016.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 1609847

Date Reported: 9/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum Corporation**Client Sample ID:** S 0.25E**Project:** Humidor BML State Com #5H**Collection Date:** 9/13/2016 11:15:00 AM**Lab ID:** 1609847-001**Matrix:** SOIL**Received Date:** 9/15/2016 10:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/19/2016 6:56:23 PM	27590
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/20/2016 4:30:39 PM	27560
Surr: DNOP	95.1	70-130		%Rec	1	9/20/2016 4:30:39 PM	27560
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/19/2016 5:15:03 PM	27541
Surr: BFB	81.1	68.3-144		%Rec	1	9/19/2016 5:15:03 PM	27541
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	9/19/2016 5:15:03 PM	27541
Benzene	ND	0.025		mg/Kg	1	9/19/2016 5:15:03 PM	27541
Toluene	ND	0.050		mg/Kg	1	9/19/2016 5:15:03 PM	27541
Ethylbenzene	ND	0.050		mg/Kg	1	9/19/2016 5:15:03 PM	27541
Xylenes, Total	ND	0.099		mg/Kg	1	9/19/2016 5:15:03 PM	27541
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	9/19/2016 5:15:03 PM	27541

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1609847

Date Reported: 9/23/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: S 1.0E

Project: Humidor BML State Com #5H

Collection Date: 9/13/2016 11:24:00 AM

Lab ID: 1609847-002

Matrix: SOIL

Received Date: 9/15/2016 10:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/19/2016 7:08:47 PM	27590
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/20/2016 4:52:39 PM	27560
Surr: DNOP	108	70-130		%Rec	1	9/20/2016 4:52:39 PM	27560
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/19/2016 5:38:32 PM	27541
Surr: BFB	80.1	68.3-144		%Rec	1	9/19/2016 5:38:32 PM	27541
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.096		mg/Kg	1	9/19/2016 5:38:32 PM	27541
Benzene	ND	0.024		mg/Kg	1	9/19/2016 5:38:32 PM	27541
Toluene	ND	0.048		mg/Kg	1	9/19/2016 5:38:32 PM	27541
Ethylbenzene	ND	0.048		mg/Kg	1	9/19/2016 5:38:32 PM	27541
Xylenes, Total	ND	0.096		mg/Kg	1	9/19/2016 5:38:32 PM	27541
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	9/19/2016 5:38:32 PM	27541

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1609847

Date Reported: 9/23/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: S 0.25W

Project: Humidor BML State Com #5H

Collection Date: 9/13/2016 11:34:00 AM

Lab ID: 1609847-003

Matrix: SOIL

Received Date: 9/15/2016 10:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/19/2016 7:21:11 PM	27590
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	9.4	9.3		mg/Kg	1	9/20/2016 5:14:31 PM	27560
Surr: DNOP	88.4	70-130		%Rec	1	9/20/2016 5:14:31 PM	27560
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/19/2016 6:01:59 PM	27541
Surr: BFB	80.1	68.3-144		%Rec	1	9/19/2016 6:01:59 PM	27541
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	9/19/2016 6:01:59 PM	27541
Benzene	ND	0.023		mg/Kg	1	9/19/2016 6:01:59 PM	27541
Toluene	ND	0.047		mg/Kg	1	9/19/2016 6:01:59 PM	27541
Ethylbenzene	ND	0.047		mg/Kg	1	9/19/2016 6:01:59 PM	27541
Xylenes, Total	ND	0.093		mg/Kg	1	9/19/2016 6:01:59 PM	27541
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	9/19/2016 6:01:59 PM	27541

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation  
**Project:** Humidor BML State Com #5H  
**Lab ID:** 1609847-004

**Matrix:** SOIL

**Client Sample ID:** S 1.0W  
**Collection Date:** 9/13/2016 11:43:00 AM  
**Received Date:** 9/15/2016 10:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/19/2016 7:33:36 PM	27590
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/20/2016 5:36:30 PM	27560
Surr: DNOP	105	70-130		%Rec	1	9/20/2016 5:36:30 PM	27560
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/19/2016 6:25:25 PM	27541
Surr: BFB	81.2	68.3-144		%Rec	1	9/19/2016 6:25:25 PM	27541
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	9/19/2016 6:25:25 PM	27541
Benzene	ND	0.025		mg/Kg	1	9/19/2016 6:25:25 PM	27541
Toluene	ND	0.050		mg/Kg	1	9/19/2016 6:25:25 PM	27541
Ethylbenzene	ND	0.050		mg/Kg	1	9/19/2016 6:25:25 PM	27541
Xylenes, Total	ND	0.099		mg/Kg	1	9/19/2016 6:25:25 PM	27541
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	9/19/2016 6:25:25 PM	27541

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609847

23-Sep-16

Client: Yates Petroleum Corporation  
Project: Humidor BML State Com #5H

Sample ID	MB-27590	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	27590	RunNo	37316					
Prep Date	9/19/2016	Analysis Date	9/19/2016	SeqNo	1158856	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-27590	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	27590	RunNo	37316					
Prep Date	9/19/2016	Analysis Date	9/19/2016	SeqNo	1158857	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609847

23-Sep-16

Client: Yates Petroleum Corporation  
Project: Humidor BML State Com #5H

Sample ID	MB-27560	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	27560	RunNo:	37319					
Prep Date:	9/19/2016	Analysis Date:	9/20/2016	SeqNo:	1159369	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	70	130			

Sample ID	LCS-27560	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	27560	RunNo:	37319					
Prep Date:	9/19/2016	Analysis Date:	9/20/2016	SeqNo:	1159425	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	62.6	124			
Surr: DNOP	4.6		5.000		91.7	70	130			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609847

23-Sep-16

Client: Yates Petroleum Corporation  
Project: Humidor BML State Com #5H

Sample ID	MB-27541	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	27541	RunNo:	37306					
Prep Date:	9/16/2016	Analysis Date:	9/19/2016	SeqNo:	1158431	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.8	68.3	144			

Sample ID	LCS-27541	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	27541	RunNo:	37306					
Prep Date:	9/16/2016	Analysis Date:	9/19/2016	SeqNo:	1158432	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	77.6	74.6	123			
Surr: BFB	900		1000		89.6	68.3	144			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1609847

23-Sep-16

**Client:** Yates Petroleum Corporation  
**Project:** Humidor BML State Com #5H

Sample ID	MB-27541		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 27541		RunNo: 37306					
Prep Date:	9/16/2016		Analysis Date: 9/19/2016		SeqNo: 1158469		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	LCS-27541		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 27541		RunNo: 37306					
Prep Date:	9/16/2016		Analysis Date: 9/19/2016		SeqNo: 1158470		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.96	0.10	1.000	0	95.5	61	143			
Benzene	0.97	0.025	1.000	0	97.3	75.3	123			
Toluene	1.0	0.050	1.000	0	101	80	124			
Ethylbenzene	1.0	0.050	1.000	0	104	82.8	121			
Xylenes, Total	3.1	0.10	3.000	0	104	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

## Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1609847

RcptNo 1

Received by/date: *LC*

Logged By: Lindsay Mangin

9/15/2016 10:25:00 AM

Completed By: Lindsay Mangin

9/15/2016 2:43:33 PM

Reviewed By: *AS*

09/16/16

*[Signature]*

*[Signature]*

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>3^{\circ}\text{C}$  to  $6^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒ # of preserved bottles checked for pH (≤ or ≥ 12 unless noted)
12. Does paperwork match bottle labels? Yes ☒ No ☐ Adjusted?
- (Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met? Yes ☒ No ☐ Checked by
- (If no, notify customer for authorization.)

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



Left-Around 11116.

Client: Yates Petroleum Corporation

☒ Standard ☐ Rush

L. Rush

Project Name:

**mailing Address: 105 South 4th Street**

tesia. NM 83210

Phone #: (575) 748-4217

mail: [boba@vatespetroleum.com](mailto:boba@vatespetroleum.com)

WCC Package:

☐ Level 2 (Full Validation)

Subscription:

☐ Other \_\_\_\_\_

On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
---------	---	-----------------------------

Sample Temperature: / - 0

Date Time Matrix Sample Request ID

Xitab

Container

ervative

HEAL No.

[illegible]

April 09, 2015

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: HUMIDOR BML STATE COM. #5-H

Enclosed are the results of analyses for samples received by the laboratory on 04/02/15 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.0 N (H500881-02)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTEX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.8 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.5 N (H500881-03)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 83.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.3 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C00.50 S (H500881-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTEX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 87.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.0 % 52.1-176

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.0 S (H500881-05)**

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTEX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 90.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
ROBERT ASHER  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.5 S (H500881-06)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 87.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.4 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C00.50 W (H500881-07)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09		
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754		
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196		
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465		
Total BTX	<0.300	0.300	04/08/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183		
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985		

Surrogate: 1-Chlorooctane 90.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.0 W (H500881-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTEX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 86.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.0 % 52.1-176

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.5 W (H500881-09)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2015	ND	1.82	91.2	2.00	2.09	
Toluene*	<0.050	0.050	04/08/2015	ND	1.74	86.9	2.00	0.754	
Ethylbenzene*	<0.050	0.050	04/08/2015	ND	1.68	84.2	2.00	0.196	
Total Xylenes*	<0.150	0.150	04/08/2015	ND	5.29	88.1	6.00	0.465	
Total BTX	<0.300	0.300	04/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2015	ND	193	96.5	200	0.183	
DRO >C10-C28	<10.0	10.0	04/06/2015	ND	203	101	200	0.985	

Surrogate: 1-Chlorooctane 84.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 81.6 % 52.1-176

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager









PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 09, 2015

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: HUMIDOR BML STATE COM. #5-H

Enclosed are the results of analyses for samples received by the laboratory on 04/02/15 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C00.50 N (H500881-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	04/06/2015	ND	400	100	400	3.92	

**Sample ID: C01.0 N (H500881-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: C01.5 N (H500881-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/06/2015	ND	400	100	400	0.00	


**Sample ID: C00.50 S (H500881-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/06/2015	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 ROBERT ASHER  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	04/02/2015	Sampling Date:	04/01/2015
Reported:	04/09/2015	Sampling Type:	Soil
Project Name:	HUMIDOR BML STATE COM. #5-H	Sampling Condition:	Cool & Intact
Project Number:	30-015-42755	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: C01.0 S (H500881-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: C01.5 S (H500881-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: C00.50 W (H500881-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: C01.0 W (H500881-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/06/2015	ND	400	100	400	0.00	

**Sample ID: C01.5 W (H500881-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/06/2015	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Asher

Company (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4217

Sampler Signature: *QuaQua*

e-mail:

[boba@yatespetroleum.com](mailto:boba@yatespetroleum.com)

Project Name: Humidor BML State Cor. #5-H

Project #: 30-015-42755

Project Loc: Eddy County

PO #: 205632

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

Analyze For:

(lab use only)

ORDER #: H500881

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other ( Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH	418.1	8015M	80	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM	RUSH TAT (Pre-Schedule) 2	Standard TAT
1	C00.50 N	6"	6"	4/1/2015	10:46 AM		1	X								S	X					X										X	X
2	C01.0 N	12"	12"	4/1/2015	11:00 AM		1	X								S	X					X										X	X
3	C01.5 N	18"	18"	4/1/2015	11:15 AM		1	X								S	X					X										X	X
4	C00.50 S	6"	6"	4/1/2015	11:32 AM		1	X								S	X					X										X	X
5	C01.0 S	12"	12"	4/1/2015	11:49 AM		1	X								S	X					X										X	X
6	C01.5 S	18"	18"	4/1/2015	12:02 PM		1	X								S	X					X										X	X
7	C00.50 W	6"	6"	4/1/2015	12:24 PM		1	X								S	X					X										X	X
8	C01.0 W	12"	12"	4/1/2015	12:40 PM		1	X								S	X					X										X	X
9	C01.5 W	18"	18"	4/1/2015	12:55 PM		1	X								S	X					X										X	X

Special instructions:

Chlorides on separate report please. ALL results in mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
<i>QuaQua</i>	04/02/15	8:57 AM	<i>Chloe Henderson</i>	4/2/15	11:35
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Temperature Upon Receipt: *22* °C

by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N

VOCS Free of Headspace? ☒ Y ☐ N

Labels on container(s) ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Sample Hand Delivered by Sampler/Client Rep. ? ☒ Y ☐ N