

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street		Telephone No. 575-748-1471
Facility Name Humidor BMO State Com #3	API Number 30-015-23599	Facility Type Battery

Surface Owner State	Mineral Owner State	Lease No. V-5866
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LOCATION OF RELEASE

Unit Letter E	Section 14	Township 24S	Range 27	Feet from the 1980	North/South Line North	Feet from the 960	East/West Line West	County Eddy
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Latitude 32.21937 Longitude 104.16614

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 30 B/PW	Volume Recovered 30 B/PW
Source of Release Water tank	Date and Hour of Occurrence 7/11/2015; AM	Date and Hour of Discovery 7/11/2015; 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 7/13/2015; AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A


Describe Cause of Problem and Remedial Action Taken.*

Lightning struck the fiberglass produced water tank, resulting in releasing produced water within the bermed and lined battery. Area Fire Department called and a vacuum truck was called to the location.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 20' X 80' all within lined/bermed battery. Vacuum truck recovered produced water. The liner was not damaged and is intact after further investigation some produced water breached over the liner (approximately 20' X 40'). Impacted soils excavated and hauled to an NMOCD approved facility. **Depth to Ground Water: < 50' (approximately 55' per ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10. Based on remediation work and analytical data, Yates Petroleum Corporation requests closure.**

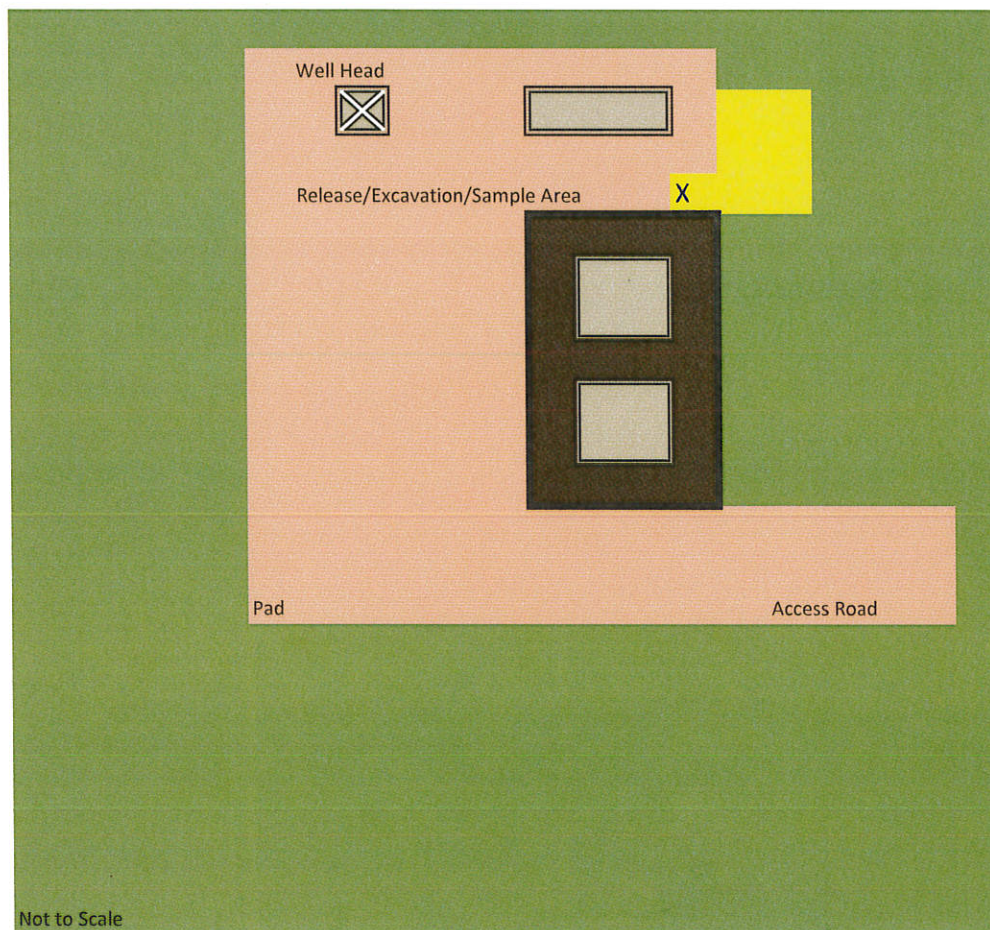
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Monday, October 17, 2016 Phone: 575-748-4217	2RP-3160	

* Attach Additional Sheets If Necessary

NW

NE



Key:



Production Equipment



Battery and Berm

Analytical Report- 1610348 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
	Release Area	N/A	N/A	NA					
C 00.5	Release Area	9/13/2016	Comp/Auger	6" (30" BSL)	ND	ND	ND	ND	43
C 01.0	Release Area	9/13/2016	Comp/Auger	12" (36" BSL)	ND	ND	ND	ND	120
C 01.5	Release Area	9/13/2016	Comp/Auger	18" (42" BSL)	ND	ND	ND	ND	130

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 55', per ChevronTexaco Trend Map).

All results are ppm. BLS - Below Surface Level

Released: 30 B/PW; Recovered: 30 B/PW. Release Date: 7/11/2015

24" of impacted soils excavated before 9/13/2016 samples collected.

SW

SE



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 13, 2016

Robert Asher

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

RE: Humidor BOM State Com 3

OrderNo.: 1610348

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/7/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1610348

Date Reported: 10/13/2016

CLIENT: Yates Petroleum Corporation
Project: Humidor BOM State Com 3

Lab Order: 1610348**Lab ID:** 1610348-001**Collection Date:** 10/4/2016 10:20:00 AM**Client Sample ID:** C 00.5**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	43	30		mg/Kg	20	10/12/2016 3:17:00 PM	28015

Lab ID: 1610348-002**Collection Date:** 10/4/2016 10:31:00 AM**Client Sample ID:** C 01.0**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	120	30		mg/Kg	20	10/12/2016 3:54:15 PM	28015

Lab ID: 1610348-003**Collection Date:** 10/4/2016 10:46:00 AM**Client Sample ID:** C 01.5**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	130	30		mg/Kg	20	10/12/2016 4:06:40 PM	28015

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610348

13-Oct-16

Client: Yates Petroleum Corporation

Project: Humidor BOM State Com 3

Sample ID	MB-28015	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28015	RunNo:	37905					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180857	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28015	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	28015	RunNo:	37905					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180858	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	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 |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1610348

RcptNo: 1

Received by/date: [Signature] 10/07/16
Logged By: Lindsay Mangin 10/7/2016 9:45:00 AM
Completed By: Lindsay Mangin 10/7/2016 2:47:01 PM
Reviewed By: WJ 10/7/16

[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 $>0^{\circ}\text{C}$ to 6.0°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 ☒
12. Does paperwork match bottle labels? Yes ☒ No ☐
(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 ☐
(If no, notify customer for authorization.)

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			



4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Yates Petroleum Corporation

☒ Standard ☐ Rush

Humidor BOM State Com #3

30-015-23599

Robert Asher

☐☐ Other

Sampler:	Same
----------	------

Sample Temperature: 40

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No.:

HEAL No. 161032/8

1 - 4oz.

1 - 40Z.

1 - 4oz.

ed by:

Date Time

1

Belinquished by:

Date 05/19/11 Time 11:00

Remarks: Please put chloride results on separate report.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 13, 2016

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

RE: Humidor BOM State Com 3

OrderNo.: 1610348

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/7/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1610348

Date Reported: 10/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: C 00.5

Project: Humidor BOM State Com 3

Collection Date: 10/4/2016 10:20:00 AM

Lab ID: 1610348-001

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/11/2016 3:12:07 PM	27964
Surr: DNOP	73.4	70-130		%Rec	1	10/11/2016 3:12:07 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2016 11:57:31 AM	27962
Surr: BFB	93.7	68.3-144		%Rec	1	10/11/2016 11:57:31 AM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/11/2016 11:57:31 AM	27962
Toluene	ND	0.048		mg/Kg	1	10/11/2016 11:57:31 AM	27962
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2016 11:57:31 AM	27962
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2016 11:57:31 AM	27962
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	10/11/2016 11:57:31 AM	27962

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	Page 1 of 6
	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

Client Sample ID: C 01.0

Project: Humidor BOM State Com 3

Collection Date: 10/4/2016 10:31:00 AM

Lab ID: 1610348-002

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/11/2016 3:35:14 PM	27964
Surr: DNOP	77.6	70-130		%Rec	1	10/11/2016 3:35:14 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2016 1:07:55 PM	27962
Surr: BFB	89.6	68.3-144		%Rec	1	10/11/2016 1:07:55 PM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/11/2016 1:07:55 PM	27962
Toluene	ND	0.048		mg/Kg	1	10/11/2016 1:07:55 PM	27962
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2016 1:07:55 PM	27962
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2016 1:07:55 PM	27962
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/11/2016 1:07:55 PM	27962

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	Page 2 of 6
	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 1610348

Date Reported: 10/13/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: C 01.5

Project: Humidor BOM State Com 3

Collection Date: 10/4/2016 10:46:00 AM

Lab ID: 1610348-003

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/11/2016 3:58:13 PM	27964
Surr: DNOP	74.1	70-130		%Rec	1	10/11/2016 3:58:13 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/12/2016 1:47:13 PM	27962
Surr: BFB	94.6	68.3-144		%Rec	1	10/12/2016 1:47:13 PM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/12/2016 1:47:13 PM	27962
Toluene	ND	0.048		mg/Kg	1	10/12/2016 1:47:13 PM	27962
Ethylbenzene	ND	0.048		mg/Kg	1	10/12/2016 1:47:13 PM	27962
Xylenes, Total	ND	0.095		mg/Kg	1	10/12/2016 1:47:13 PM	27962
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	10/12/2016 1:47:13 PM	27962

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610348

13-Oct-16

Client: Yates Petroleum Corporation

Project: Humidor BOM State Com 3

Sample ID	LCS-27964	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	27964	RunNo:	37844					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179127	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	62.6	124			
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID	MB-27964	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	27964	RunNo:	37844					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179128	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	10		10.00		101	70	130			

Sample ID	LCS-27994	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	27994	RunNo:	37869					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1179829	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.2	70	130			

Sample ID	MB-27994	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	27994	RunNo:	37869					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1179830	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.4	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#: 1610348

13-Oct-16

Client: Yates Petroleum Corporation

Project: Humidor BOM State Com 3

Sample ID	MB-27962	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	27962	RunNo:	37863					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179358	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	920		1000		91.9	68.3	144			

Sample ID	LCS-27962	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	27962	RunNo:	37863					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179359	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	74.6	123			
Surr: BFB	1000		1000		101	68.3	144			

Sample ID	MB-27999	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	27999	RunNo:	37885					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180069	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		1000		92.3	68.3	144			

Sample ID	LCS-27999	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	27999	RunNo:	37885					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180070	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	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#: 1610348

13-Oct-16

Client: Yates Petroleum Corporation

Project: Humidor BOM State Com 3

Sample ID	MB-27962		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	27962		RunNo:	37863				
Prep Date:	10/10/2016		Analysis Date:	10/11/2016		SeqNo:	1179392		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	LCS-27962		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS		Batch ID:	27962		RunNo:	37863				
Prep Date:	10/10/2016		Analysis Date:	10/11/2016		SeqNo:	1179393		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Benzene	1.1	0.025	1.000	0	105	75.2	115			
Toluene	1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	104	78.9	117			
Xylenes, Total	3.1	0.10	3.000	0	103	79.2	115			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	MB-27999		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	27999		RunNo:	37885				
Prep Date:	10/11/2016		Analysis Date:	10/12/2016		SeqNo:	1180084		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			
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Sample ID	LCS-27999		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 27999		RunNo: 37885					
Prep Date:	10/11/2016		Analysis Date: 10/12/2016		SeqNo: 1180085		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			
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Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified





HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1610348

RcptNo: 1

Received by/date:		10/07/16
Logged By:	Lindsay Mangin	10/7/2016 9:45:00 AM
Completed By:	Lindsay Mangin	10/7/2016 2:47:01 PM
Reviewed By:		10/7/16

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 $>0^{\circ}\text{C}$ to 6.0°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 ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
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?
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	_____
(<2 or >12 unless noted)	
Adjusted?	_____
Checked by:	_____

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 13, 2016

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

RE: Humidor BOM State Com 3

OrderNo.: 1610348

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/7/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1610348

Date Reported: 10/13/2016

CLIENT: Yates Petroleum Corporation
Project: Humidor BOM State Com 3

Lab Order: 1610348

Lab ID: 1610348-001

Collection Date: 10/4/2016 10:20:00 AM

Client Sample ID: C 00.5

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	43	30		mg/Kg	20	10/12/2016 3:17:00 PM	28015

Lab ID: 1610348-002

Collection Date: 10/4/2016 10:31:00 AM

Client Sample ID: C 01.0

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	120	30		mg/Kg	20	10/12/2016 3:54:15 PM	28015

Lab ID: 1610348-003

Collection Date: 10/4/2016 10:46:00 AM

Client Sample ID: C 01.5

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	130	30		mg/Kg	20	10/12/2016 4:06:40 PM	28015

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610348

13-Oct-16

Client: Yates Petroleum Corporation

Project: Humidor BOM State Com 3

Sample ID	MB-28015	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28015	RunNo:	37905					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180857	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28015	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	28015	RunNo:	37905					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180858	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	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 |
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Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1610348

RcptNo: 1

Received by/date:		10/07/16
Logged By:	Lindsay Mangin	10/7/2016 9:45:00 AM
Completed By:	Lindsay Mangin	10/7/2016 2:47:01 PM
Reviewed By:		10/7/16

Chain of Custody

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

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	_____
(<2 or >12 unless noted)	
Adjusted?	_____
Checked by:	_____

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address: 105 S. Fourth Street
Artesia, NM 88210

Phone #: 575-748-4217

email or Fax#: boba@yatespetroleum.com

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

EDD (Type)

Sampler: ☒ Yes ☐ No

On Ice: ☒ Yes ☐ No

Sample Temperature: 40

Container Type and #

Preservative Type

HEAL No. 161034/8

1 - 4oz.

Ice

1 - 4oz.

Ice

1 - 4oz.

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1 - 4oz.

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Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Humidor BOM State Com #3

Project #:

30-015-23599

Project Manager:

Robert Asher

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 40

Container Type and #

Preservative Type

HEAL No. 161034/8

1 - 4oz.

Ice

1 - 4oz.

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☒ Standard ☐ Rush

Project Name:

Humidor BOM State Com #3

Project #:

30-015-23599

Project Manager:

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Project Name:

Humidor BOM State Com #3

Project #:

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Turn-Around Time:

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Humidor BOM State Com #3

Project #:

30-015-23599

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Robert Asher

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 40

Container Type and #

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HEAL No. 161034/8

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Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Humidor BOM State Com #3

Project #:

30-015-23599

Project Manager:

Robert Asher

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 40

Container Type and #

Preservative Type

HEAL No. 161034/8

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Turn-Around Time:

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