

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

JOHN A. YATES
CHAIRMAN EMERITUS

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DOUGLAS E. BROOKS
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CHIEF EXECUTIVE OFFICER

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

February 8, 2016

Mr. Mike Bratcher or Ms. Heather Patterson
NMOCD District II
811 South First
Artesia, NM 88210

RE: Corral Draw AQH Federal #1
30-015-29396
Section 13, T24S-R29E
Eddy County, New Mexico

Mr. Bratcher or Ms. Patterson,

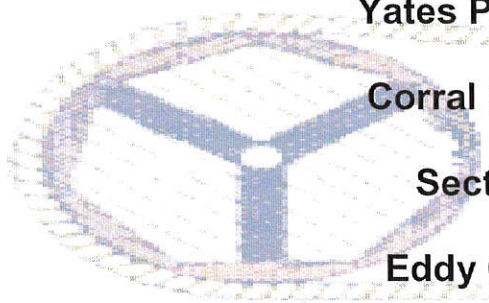
Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on November 22, 2015 (2RP-3436). The release was 20 barrels of produced water with 11 barrels of produced water recovered.

With NMOCD and BLM approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

Amber Griffin
Environmental Regulatory Agent
Yates Petroleum Corporation



Yates Petroleum Corporation

Corral Draw AQH Federal #1

Section 13, T24S-R29E

Eddy County, New Mexico

February 8, 2016

I. Location

The release area is located approximately 7.2 miles east of Malaga, NM via Duarte Road, McDonald Road, Dogtown Road and lease roads.

II. Background

On November 22, 2015, Yates had a release of 20 barrels produced water with 11 barrels produced water recovered. The area affected from this release was within the unlined, bermed battery. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on December 7, 2015.

On January 13, 2016 Yates returned to the site and collected initial soil samples from the surface and 6" below surface level using a shovel and a hand auger. The rock and hardness of the caliche within the battery area prevented further initial hand sampling. The surface and 6" soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides 300.0. Yates received the analytical results on January 21, 2016 (Report 1601547 attached to this work plan). The analytical results showed that both BTEX and TPH had delineated to levels below NMOCD RRAL's. The analytical results also showed elevated chloride levels, and Yates determined that further vertical delineation of chlorides was needed.

On January 27, 2016 Yates returned to the site and collected further soil samples from the depths of 1' - 12' below the surface level with a backhoe. The soil samples were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. Yates received the analytical results on February 4, 2016 (Report 1601B42 attached to this work plan). The analytical results showed that chloride levels had delineated.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be approximately 100'-125' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the following:

Depth to ground water	>100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche and clay seams.

V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes to excavate 4' from the release area. The excavation will be approximately 60' long, 20' wide.

Once all soils have been excavated, a 20 mil synthetic liner will be placed in the bottom of the excavation. The backfill of the excavation will then be completed with caliche.

Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility, The Lea Land, Inc. Landfill located on Highway on 62/180 or R360 Environmental Solutions Red Bluff Facility located on Highway 285 near Orla, Texas, depending on which contractor the work is assigned to.

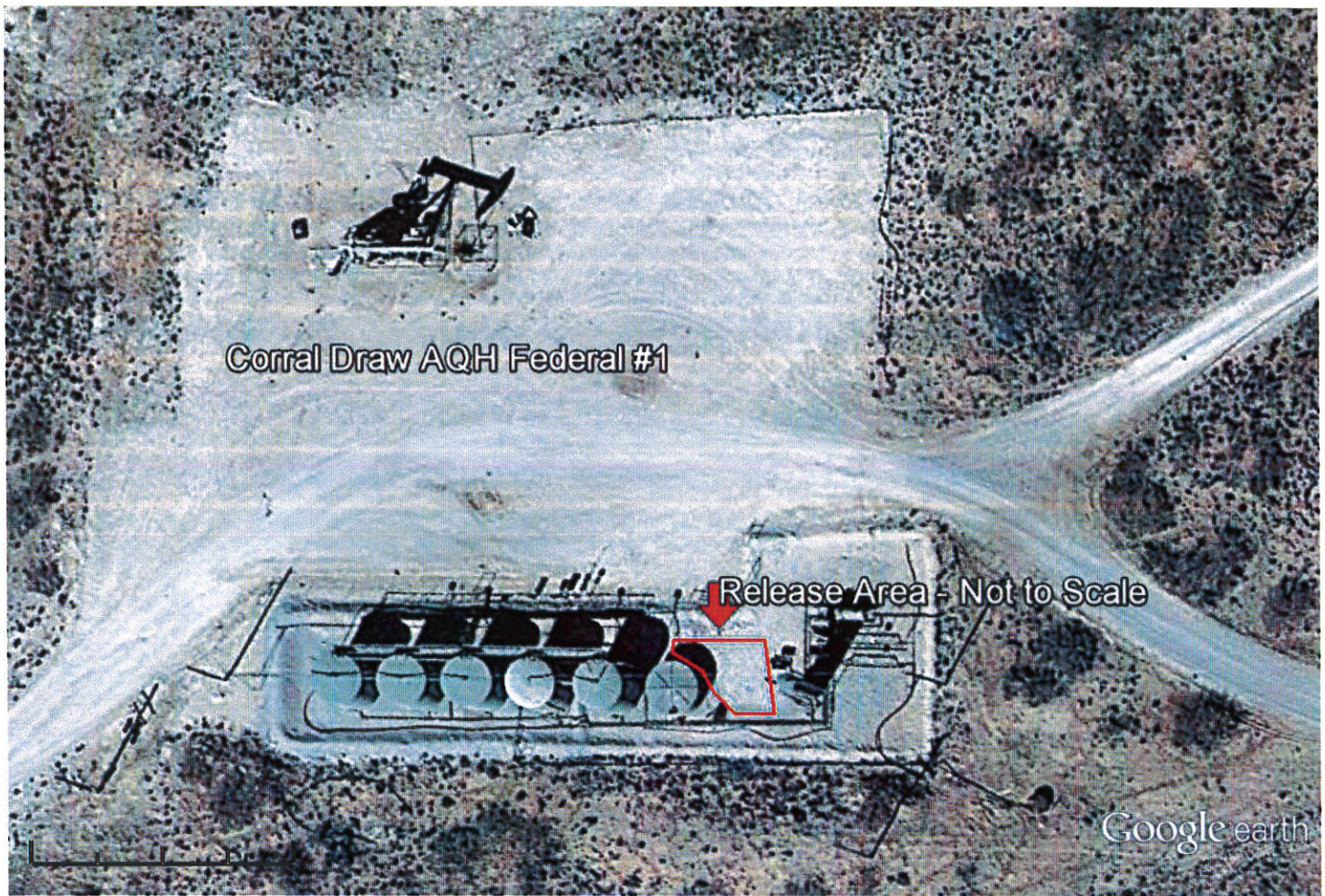
Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD and NMSLO requesting closure of this release.



Google earth

miles 7
km 10





Google earth

feet 200
meters 60



Corral Draw AQH Federal #1

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Surface	Release area	1/13/2016	1601547	Grab/Shovel	Surface	ND	ND	3,500	3,500	590
6"	Release area	1/13/2016	1601547	Grab/Auger	6"	ND	ND	63	63	5,600
1'	Release area	1/27/2016	1601B42	Grab/Backhoe	1'	-	-	-	-	600
2'	Release area	1/27/2016	1601B42	Grab/Backhoe	2'	-	-	-	-	1,200
3'	Release area	1/27/2016	1601B42	Grab/Backhoe	4'	-	-	-	-	9,200
4'	Release area	1/27/2016	1601B42	Grab/Backhoe	5'	-	-	-	-	15,000
6'	Release area	1/27/2016	1601B42	Grab/Backhoe	6'	-	-	-	-	2,400
8'	Release area	1/27/2016	1601B42	Grab/Backhoe	7'	-	-	-	-	11,000
10'	Release area	1/27/2016	1601B42	Grab/Backhoe	8'	-	-	-	-	41
12'	Release area	1/27/2016	1601B42	Grab/Backhoe	11'	-	-	-	-	78

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 100'-125', per ChevronTexaco trend map).

All results are ppm.Chlorides for documentation.

Released: 20 B/PW; Recovered: 11 B/PW. Release Date: 11/22/2015, 2RP-3436



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

January 21, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Corral Draw AQH Federal #1

OrderNo.: 1601547

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/15/2016 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 dashed line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1601547

Date Reported: 1/21/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Yates Petroleum Corporation
Project: Corral Draw AQH Federal #1**Lab Order:** 1601547**Lab ID:** 1601547-001**Collection Date:** 1/13/2016 11:48:00 AM**Client Sample ID:** Surface**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	590	30		mg/Kg	20	1/19/2016 2:01:13 PM	23289

Lab ID: 1601547-002**Collection Date:** 1/13/2016 12:00:00 PM**Client Sample ID:** 6"**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	5600	300		mg/Kg	200	1/20/2016 1:42:43 PM	23289

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601547

21-Jan-16

Client: Yates Petroleum Corporation

Project: Corral Draw AQH Federal #1

Sample ID	MB-23289	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23289	RunNo:	31548					
Prep Date:	1/19/2016	Analysis Date:	1/19/2016	SeqNo:	965595	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23289	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23289	RunNo:	31548					
Prep Date:	1/19/2016	Analysis Date:	1/19/2016	SeqNo:	965596	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

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



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: 1601547

RcptNo: 1

Received by/date:

4 *alishu*

Logged By: Lindsay Mangin

1/15/2016 9:50:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

1/15/2016 12:25:35 PM

Lindsay Mangin

Reviewed By:

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: ☐ 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	4.1	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Turn-Around Time:

X Standard ☐ Rush

Project Name:

Mailing Address:

05 South 4th Street Artesia, NM 88210

Phone #: 575-513-8799 or 575-748-4111

Email or Fax #: agriffin@yatespetroleum.com

WQC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Corral Draw AQH Federal #1

Project #:

2RP-3436

Project Manager:

Amber Griffin

PO # 205-2020

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.1

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

HEAL No. 1601847

1/13/2016

11:48

Soil

Surface

1 - 4oz.

Ice

-001

1/13/2016

12:00

Soil

6"

1 - 4oz.

Ice

-002

Date:

Time:

Relinquished by:

Received by:

Date

Time

1/14/2016

8:00A

Amber Griffin

Dr. [Signature]

01/15/16

0950

Date:

Time:

Relinquished by:

Received by:

Date

Time

Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chloride results on a separate report. Thank you!

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 noted on the analytical report.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX + MTBE + TMBs (8021) TPH Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 504.1) 8310 (PNA or PAH) RCRA 8 Metals Anions (F, Cl, NO₃, NO₂, PO₄, SO₄) 8081 Pesticides / 8082 PCBs 8260B (VOA) 8270 (Semi-VOA) Air Bubbles (Y or N)



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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January 21, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Corral Draw AQH Federal #1

OrderNo.: 1601547

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/15/2016 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1601547

Date Reported: 1/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: Surface

Project: Corral Draw AQH Federal #1

Collection Date: 1/13/2016 11:48:00 AM

Lab ID: 1601547-001

Matrix: SOIL

Received Date: 1/15/2016 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	3500	970		mg/Kg	100	1/20/2016 12:47:32 PM	23261
Surr: DNOP	0	70-130	S	%REC	100	1/20/2016 12:47:32 PM	23261
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/18/2016 11:33:47 PM	23236
Surr: BFB	91.0	66.2-112		%REC	1	1/18/2016 11:33:47 PM	23236
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/18/2016 11:33:47 PM	23236
Toluene	ND	0.048		mg/Kg	1	1/18/2016 11:33:47 PM	23236
Ethylbenzene	ND	0.048		mg/Kg	1	1/18/2016 11:33:47 PM	23236
Xylenes, Total	ND	0.097		mg/Kg	1	1/18/2016 11:33:47 PM	23236
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	1/18/2016 11:33:47 PM	23236

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 5
	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			

Analytical Report

Lab Order 1601547

Date Reported: 1/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 6"

Project: Corral Draw AQH Federal #1

Collection Date: 1/13/2016 12:00:00 PM

Lab ID: 1601547-002

Matrix: SOIL

Received Date: 1/15/2016 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	63	9.4		mg/Kg	1	1/20/2016 1:09:04 PM	23261
Surr: DNOP	103	70-130		%REC	1	1/20/2016 1:09:04 PM	23261
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/19/2016 2:04:13 AM	23236
Surr: BFB	96.0	66.2-112		%REC	1	1/19/2016 2:04:13 AM	23236
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/19/2016 2:04:13 AM	23236
Toluene	ND	0.048		mg/Kg	1	1/19/2016 2:04:13 AM	23236
Ethylbenzene	ND	0.048		mg/Kg	1	1/19/2016 2:04:13 AM	23236
Xylenes, Total	ND	0.096		mg/Kg	1	1/19/2016 2:04:13 AM	23236
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	1/19/2016 2:04:13 AM	23236

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 5
	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			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601547

21-Jan-16

Client: Yates Petroleum Corporation

Project: Corral Draw AQH Federal #1

Sample ID	LCS-23279	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23279	RunNo:	31519					
Prep Date:	1/19/2016	Analysis Date:	1/19/2016	SeqNo:	964688	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.8	70	130			

Sample ID	MB-23279	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23279	RunNo:	31519					
Prep Date:	1/19/2016	Analysis Date:	1/19/2016	SeqNo:	964690	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.7	70	130			

Sample ID	MB-23262	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23262	RunNo:	31518					
Prep Date:	1/18/2016	Analysis Date:	1/19/2016	SeqNo:	964967	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		126	70	130			

Sample ID	LCS-23262	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23262	RunNo:	31518					
Prep Date:	1/18/2016	Analysis Date:	1/19/2016	SeqNo:	964968	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.3	70	130			

Sample ID	MB-23261	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23261	RunNo:	31518					
Prep Date:	1/18/2016	Analysis Date:	1/19/2016	SeqNo:	965018	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	16		10.00		160	70	130			S

Sample ID	LCS-23261	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23261	RunNo:	31524					
Prep Date:	1/18/2016	Analysis Date:	1/19/2016	SeqNo:	965732	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	65.8	136			
Surr: DNOP	5.7		5.000		114	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601547

21-Jan-16

Client: Yates Petroleum Corporation

Project: Corral Draw AQH Federal #1

Sample ID	MB-23236	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23236	RunNo:	31503					
Prep Date:	1/15/2016	Analysis Date:	1/18/2016	SeqNo:	964172	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	870		1000		87.0	66.2	112			

Sample ID	LCS-23236	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23236	RunNo:	31503					
Prep Date:	1/15/2016	Analysis Date:	1/18/2016	SeqNo:	964173	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	79.6	122			
Surr: BFB	930		1000		93.1	66.2	112			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	A31503	RunNo:	31503					
Prep Date:		Analysis Date:	1/18/2016	SeqNo:	964229	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		87.7	66.2	112			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	A31503	RunNo:	31503					
Prep Date:		Analysis Date:	1/18/2016	SeqNo:	964230	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.4	66.2	112			

Sample ID	MB-23266	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23266	RunNo:	31526					
Prep Date:	1/18/2016	Analysis Date:	1/19/2016	SeqNo:	965257	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		87.2	66.2	112			

Sample ID	LCS-23266	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23266	RunNo:	31526					
Prep Date:	1/18/2016	Analysis Date:	1/19/2016	SeqNo:	965258	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.8	66.2	112			

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 | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601547

21-Jan-16

Client: Yates Petroleum Corporation

Project: Corral Draw AQH Federal #1

Sample ID	MB-23236	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBS	Batch ID	23236	RunNo	31503					
Prep Date	1/15/2016	Analysis Date	1/18/2016	SeqNo	964250	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
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-23236	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSS	Batch ID	23236	RunNo	31503					
Prep Date	1/15/2016	Analysis Date	1/18/2016	SeqNo	964254	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	94.3	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	MB-23266	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBS	Batch ID	23266	RunNo	31526					
Prep Date	1/18/2016	Analysis Date	1/19/2016	SeqNo	965266	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	80	120			

Sample ID	LCS-23266	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSS	Batch ID	23266	RunNo	31526					
Prep Date	1/18/2016	Analysis Date	1/19/2016	SeqNo	965267	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		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 | |



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: 1601547

RepID: 1

Received by/date:

4 *alishu*

Logged By: Lindsay Mangin

1/15/2016 9:50:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

1/15/2016 12:25:35 PM

Lindsay Mangin

Reviewed By:

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: ☐ 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	4.1	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Turn-Around Time:

X Standard ☐ Rush

Project Name:

Mailing Address:

05 South 4th Street Artesia, NM 88210

Phone #: 575-513-8799 or 575-748-4111

Email or Fax #: agriffin@yatespetroleum.com

WQC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Corral Draw AQH Federal #1

Project #:

2RP-3436

Project Manager:

Amber Griffin

PO # 205-2020

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.1

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

HEAL No.

1601847

-001

-002

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

February 04, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Corral Draw AQH Federal #1

OrderNo.: 1601B42

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 1/29/2016 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 dashed line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1601B42

Date Reported: 2/4/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Corral Draw AQH Federal #1

Lab Order: 1601B42**Lab ID:** 1601B42-001**Collection Date:** 1/27/2016 9:50:00 AM**Client Sample ID:** 1'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride	600	30		mg/Kg	20	2/2/2016 7:51:02 PM	23541
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Lab ID: 1601B42-002**Collection Date:** 1/27/2016 9:52:00 AM**Client Sample ID:** 2'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride	1200	75		mg/Kg	50	2/3/2016 3:35:41 PM	23541
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Lab ID: 1601B42-003**Collection Date:** 1/27/2016 9:54:00 AM**Client Sample ID:** 3'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride	9200	750		mg/Kg	500	2/3/2016 3:48:06 PM	23541
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Lab ID: 1601B42-004**Collection Date:** 1/27/2016 9:57:00 AM**Client Sample ID:** 4'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride	15000	750		mg/Kg	500	2/3/2016 4:00:31 PM	23541
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Lab ID: 1601B42-005**Collection Date:** 1/27/2016 10:05:00 AM**Client Sample ID:** 6'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
----------	--------	-----	------	-------	----	---------------	----------

EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride	2400	75		mg/Kg	50	2/3/2016 4:12:57 PM	23541
----------	------	----	--	-------	----	---------------------	-------

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	Page 1 of 3
	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: 1601B42

Date Reported: 2/4/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Yates Petroleum Corporation
Project: Corral Draw AQH Federal #1**Lab Order:** 1601B42**Lab ID:** 1601B42-006**Collection Date:** 1/27/2016 10:14:00 AM**Client Sample ID:** 8'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	11000	750		mg/Kg	500	2/3/2016 4:25:22 PM	23541

Lab ID: 1601B42-007**Collection Date:** 1/27/2016 10:36:00 AM**Client Sample ID:** 10'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	41	30		mg/Kg	20	2/2/2016 9:55:10 PM	23541

Lab ID: 1601B42-008**Collection Date:** 1/27/2016 10:42:00 AM**Client Sample ID:** 12'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	78	30		mg/Kg	20	2/2/2016 10:07:35 PM	23541

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	Page 2 of 3
	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#: 1601B42

04-Feb-16

Client: Yates Petroleum Corporation

Project: Corral Draw AQH Federal #1

Sample ID	MB-23541	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23541	RunNo:	31880					
Prep Date:	2/2/2016	Analysis Date:	2/2/2016	SeqNo:	975533	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23541	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23541	RunNo:	31880					
Prep Date:	2/2/2016	Analysis Date:	2/2/2016	SeqNo:	975534	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

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: 1601B42

RcptNo: 1

Received by/date:

JK 01/29/16

Logged By: Lindsay Mangin

1/29/2016 9:00:00 AM

Judy Mangin

Completed By: Lindsay Mangin

1/29/2016 3:06:16 PM

Judy Mangin

Reviewed By:

JK 02/01/16

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° 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	7.0	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Turning Address: 05 South 4th Street Artesia, NM 88210

Phone #: 575-513-8799 or 575-748-4111

Email or Fax #: agriffin@yatespetroleum.com

AVQC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

EDD (Type):

Project Manager: Amber Griffin

PO # 205-2020

Sampler: Amber Griffin

HEAL No. 1601B412

Sample Temperature: 70

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Corral Draw AQH Federal #1

Project #:

2RP-3436

Project Manager:

Amber Griffin

PO # 205-2020

Sampler:

Amber Griffin

HEAL No. 1601B412

Sample Temperature: 70

Date Time Matrix Sample Request ID

1/27/2016	9:50	Soil	1'
1/27/2016	9:52	Soil	2'
1/27/2016	9:54	Soil	3'
1/27/2016	9:57	Soil	4'
1/27/2016	10:05	Soil	6'
1/27/2016	10:14	Soil	8'
1/27/2016	10:36	Soil	10'
1/27/2016	10:42	Soil	12'

Container Type and #

1 - 4oz.
1 - 4oz.
1 - 4oz.
1 - 4oz.
1 - 4oz.
1 - 4oz.
1 - 4oz.
1 - 4oz.

Preservative Type

-
-
-
-
-
-
-
-

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Date: 1/28/16 8:00A

Relinquished by: Amber Griffin

Received by: [Signature]

Date: 01/29/16 0900

Remarks: Chlorides only. Thank you!

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.