

JOHN A. YATES SR. CHAIRMAN EMERITUS JOHN A. YATES JR. CHAIRMAN OF THE BOARD DOUGLAS E. BROOKS PRESIDENT / GED

105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471

June 3, 2016

Mr. Jamie Keyes NMOCD District I 1625 N. French Dr. Hobbs, NM 88240

RE: Lusk AHB Federal #10H 30-025-40990 Section 35, T19S-R32E Lea County, New Mexico RECEIVED By JKeyes at 7:15 am, Jun 06, 2016 Conditionally

APPROVED

Provide sidewall samples to ensure the horizontal extent of contamination is defined.

Mr. Keyes,

Yates Petroleum Corporation (Yates) would like to submit the attached plan of work to you regarding the release that occurred at the above mentioned facility on April 21, 2016 (1RP-4266).

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 Representative Yates Petroleum Corporation

Yates Petroleum Corporation

Lusk AHB Federal #10H Work Plan

Section 35, T19S-R32E

Lea County, New Mexico

June 3, 2016

I. Location

The well is located approximately 11.4 miles south of State Road 529 on County Road 126A and approximately 6.3 miles east of County Road 126A via various lease roads.

II. Background

On April 21, 2016, Yates had a release of 175 barrels produced water and 25 barrels of crude oil, with 150 barrels produced water and 25 barrels of crude oil recovered. The area affected from this release was on the southeast and east side of the production pad/battery. Vegetation and grasses that were affected by overspray from the release were treated with a Micro-Blaze/Water mixture. An initial scrape of $6^{\circ} - 1^{\circ}$ was completed of the pooling area.

An initial Form C-141 was submitted, via e-mail, to the NMOCD District I office on April 28, 2016 for this release.

On April 26, 2016 personnel returned to the release area and collected soil samples from the release area using a hand auger. Four initial samples were taken at 1' below the surface level. One sample was collected from the pooling area and three were collected from overspray areas of the release. The 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 May 6, 2016 (Report 1604C22 attached to this work plan). The analytical results showed that both BTEX and TPH were at levels below NMOCD RRAL's for all four samples. The three overspray area samples showed that chlorides were at non-detectable levels, and the pooling area showed elevated chloride levels.

On May 4, 2016 personnel returned to the release area and collected further soil samples from the pooling area at depths of 2', 3', 4', 5', 6', 7', 8', 9' and 10' below the surface level. The soil samples were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. Yates received the analytical results on May 13, 2016 (Report 1605293 attached to this work plan). The analytical results showed that Yates had successfully delineated the chlorides within the pooling area.

A new Google Earth image (site diagram) has been attached to this work plan. One was originally submitted with the Initial C-141, but after sampling was conducted it was determined that the actual pooling area of the release was smaller than originally believed. The pooling area was confined to the low lying area between the surrounding sand dunes.

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 250 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'

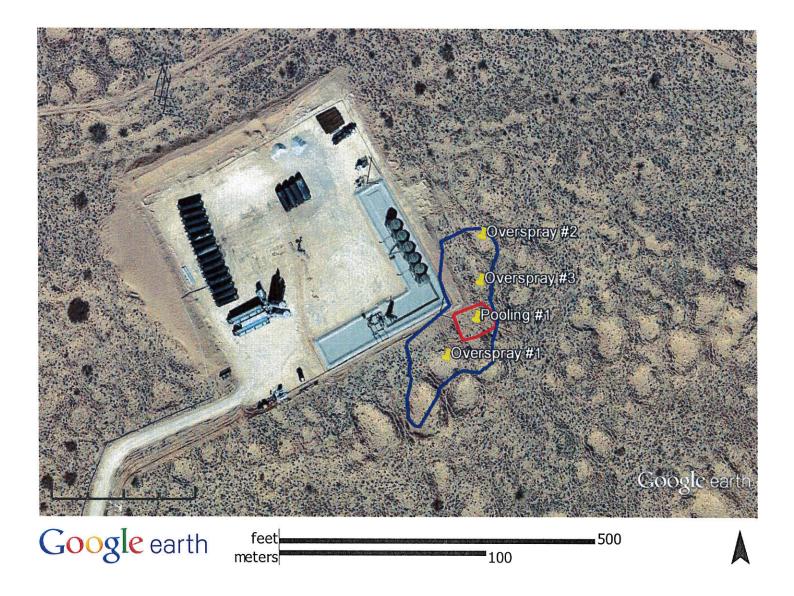
IV. Soils

The area consists of soils that are sand, interspersed with caliche and clay seams.

V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes the following work:

- Pooling Area:
 - Excavate 4' from the pooling area of the release area.
 - Lay a 20 mil liner in the bottom of the excavation.
 - The excavation will be backfilled with caliche and other clean, like soils.
 - Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility.
 - The release area will be re-seeded with BLM LPC Seed Mix.
- Overspray Areas:
 - Apply a second treatment of a 3% Micro-Blaze/Water mixture.
- Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD and BLM requesting closure of this release.



Lusk AHB Federal #10H

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	втех	GRO	DRO	TOTAL	TOTAL Chlorides
Overspray 1-1'	Release area	4/26/2016	1604C22	Grab/Hand Auger	1.	QN	QN	DN	QN	QN
Overspray 2-1'	Release area	4/26/2016	1604C22	Grab/Hand Auger	1.	Q	QN	QN	QN	QN
Overspray 3-1'	Release area	4/26/2016	1604C22	Grab/Hand Auger	1.	QN	QN	QN	QN	QN
Pooling 1-1'	Release area	4/26/2016	1604C22	Grab/Hand Auger	1.	QN	QN	ΟN	QN	6,700
Pooling 1-2'	Release area	5/4/2016	1605293	Grab/Backhoe	2'	1	•		'	3,300
Pooling 1-3'	Release area	5/4/2016	1605293	Grab/Backhoe	3'	ı	•			4,400
Pooling 1-4'	Release area	5/4/2016	1605293	Grab/Backhoe	4'		r		ı	8,300
Pooling 1-5'	Release area	5/4/2016	1605293	Grab/Backhoe	5'	,	ı			4,000
Pooling 1-6'	Release area	5/4/2016	1605293	Grab/Backhoe	6'	·	•		1	4,800
Pooling 1-7	Release area	5/4/2016	1605293	Grab/Backhoe	7'	ı	•		1	2,300
Pooling 1-8'	Release area	5/4/2016	1605293	Grab/Backhoe	8'	I	1	т		1,400
Pooling 1-9'	Release area	5/4/2016	1605293	Grab/Backhoe	9'	-		,		540
Pooling 1-10'	Release area	5/4/2016	1605293	Grab/Backhoe	10'		•	,	1	61
~										

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 250', per ChevronTexaco trend map).

All results are ppm.Chlorides for documentation.

Released: 175 B/PW, 25 B/O; Recovered: 150 B/PW, 25 B/O. Release Date: 4/21/2016, 1RP-4266

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

May 06, 2016

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

RE: Lusk AHB Federal #10H

OrderNo.: 1604C22

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/28/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1604C22

Date Reported: 5/6/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Yates Petroleum Corporation
 Client Sample ID: Overspray 1-1'

 Project:
 Lusk AHB Federal #10H
 Collection Date: 4/26/2016 7:40:00 AM

 Lab ID:
 1604C22-001
 Matrix: SOIL
 Received Date: 4/28/2016 9:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/2/2016 11:35:59 AM	25074
Sur: DNOP	88.3	70-130	%Rec	1	5/2/2016 11:35:59 AM	25074
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/29/2016 9:33:58 PM	25062
Surr: BFB	97.3	80-120	%Rec	1	4/29/2016 9:33:58 PM	25062
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/29/2016 9:33:58 PM	25062
Toluene	ND	0.049	mg/Kg	1	4/29/2016 9:33:58 PM	25062
Ethylbenzene	ND	0.049	mg/Kg	1	4/29/2016 9:33:58 PM	25062
Xylenes, Total	ND	0.098	mg/Kg	1	4/29/2016 9:33:58 PM	25062
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	4/29/2016 9:33:58 PM	25062

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	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 Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1604C22 Date Reported: 5/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum CorporationClient Sample ID: Overspray 2-1'Project: Lusk AHB Federal #10HCollection Date: 4/26/2016 8:00:00 AMLab ID: 1604C22-002Matrix: SOILReceived Date: 4/28/2016 9:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/2/2016 11:57:38 AM	25074
Surr: DNOP	89.8	70-130	%Rec	1	5/2/2016 11:57:38 AM	25074
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/29/2016 9:57:38 PM	25062
Surr: BFB	98.7	80-120	%Rec	1	4/29/2016 9:57:38 PM	25062
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/29/2016 9:57:38 PM	25062
Toluene	ND	0.048	mg/Kg	1	4/29/2016 9:57:38 PM	25062
Ethylbenzene	ND	0.048	mg/Kg	1	4/29/2016 9:57:38 PM	25062
Xylenes, Total	ND	0.096	mg/Kg	1	4/29/2016 9:57:38 PM	25062
Surr: 4-Bromofluorobenzene	99.8	80-120	%Rec	1	4/29/2016 9:57:38 PM	25062

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 7
	ND	Not Detected at the Reporting Limit	Р	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 1604C22
Date Reported: 5/6/2016

Hall Environmental Analysis Laboratory, Inc.

Lab ID:

CLIENT: Yates Petroleum Corporation Client Sample ID: Overspray 3-1' Project: Lusk AHB Federal #10H Collection Date: 4/26/2016 8:20:00 AM 1604C22-003 Matrix: SOIL Received Date: 4/28/2016 9:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/2/2016 12:19:07 PM	25074
Surr: DNOP	91.8	70-130	%Rec	1	5/2/2016 12:19:07 PM	25074
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/29/2016 10:21:10 PM	25062
Surr: BFB	96.7	80-120	%Rec	1	4/29/2016 10:21:10 PM	25062
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/29/2016 10:21:10 PM	25062
Toluene	ND	0.049	mg/Kg	1	4/29/2016 10:21:10 PM	25062
Ethylbenzene	ND	0.049	mg/Kg	1	4/29/2016 10:21:10 PM	25062
Xylenes, Total	ND	0.097	mg/Kg	1	4/29/2016 10:21:10 PM	25062
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	4/29/2016 10:21:10 PM	1 25062

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 7
	ND	Not Detected at the Reporting Limit	Р	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 1604C22

Date Reported: 5/6/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation Client Sample ID: Pooling 1-1' Project: Lusk AHB Federal #10H Collection Date: 4/26/2016 9:00:00 AM Lab ID: 1604C22-004 Received Date: 4/28/2016 9:10:00 AM Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS	i			Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/2/2016 12:40:43 PM	25074
Surr: DNOP	90.0	70-130	%Rec	1	5/2/2016 12:40:43 PM	25074
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/29/2016 10:44:36 Pt	A 25062
Surr: BFB	97.3	80-120	%Rec	1	4/29/2016 10:44:36 PI	M 25062
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.024	mg/Kg	1	4/29/2016 10:44:36 PI	M 25062
Toluene	ND	0.049	mg/Kg	1	4/29/2016 10:44:36 PI	M 25062
Ethylbenzene	ND	0.049	mg/Kg	1	4/29/2016 10:44:36 PI	M 25062
Xylenes, Total	ND	0.097	mg/Kg	1	4/29/2016 10:44:36 PI	M 25062
Surr: 4-Bromofluorobenzene	97.3	80-120	%Rec	1	4/29/2016 10:44:36 Pi	M 25062

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 7
	ND	Not Detected at the Reporting Limit	Р	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

Client: Project:		Petroleum Corporation AHB Federal #10H	
Sample ID	LCS-25074	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID:	LCSS	Batch ID: 25074	RunNo: 33916
Prep Date:	4/29/2016	Analysis Date: 5/2/2016	SeqNo: 1044743 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	65.8	136			
Surr: DNOP	4.3		5.000		85.1	70	130			
Sample ID MB-25074	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batcl	h ID: 25	074	F	RunNo: 3	3916				
Prep Date: 4/29/2016	Analysis D)ate: 5/	2/2016	S	SeqNo: 1	044744	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.8		10.00		88.3	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

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06-May-16

WO#: 1604C22

Yates Petroleum Corporation **Client:**

Project: Lusk AHB Federal #10H

Sample ID MB-25062	SampT	pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	ID: 25	062	F	RunNo: 3	3888				
Prep Date: 4/28/2016	Analysis D	ate: 4/	29/2016	S	SeqNo: 1	043964	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.6	80	120			
Sample ID LCS-25062	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 25	062	F	RunNo: 3	3888				
Prep Date: 4/28/2016	Analysis D	ate: 4/	29/2016	5	SeqNo: 1	043965	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.8	80	120			
Surr: BFB	1000		1000		105	80	120			

Qualifiers:

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

WO#: 1604C22 06-May-16

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Yates Petroleum Corporation

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Client:

Project:	Lusk Al	HB Federal #	#10H								
Sample ID	MB-25062	SampT	ype: ME	BLK	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	ID: 25	062	F	unNo: 3	3888				
Prep Date:	4/28/2016	Analysis D	ate: 4/	29/2016	S	eqNo: 1	043996	Units: mg/K	g		
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-Bromo	ofluorobenzene	1.0		1.000		101	80	120			
Sample ID	LCS-25062	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	1D: 25	062	F	RunNo: 3	3888				
Prep Date:	4/28/2016	Analysis D	ate: 4/	29/2016	5	SeqNo: 1	043997	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.025	1.000	0	91.1	75.3	123			
Toluene		0.84	0.050	1.000	0	84.4	80	124			
Ethylbenzene		0.83	0.050	1.000	0	82.6	82.8	121			S
Xylenes, Total		2.5	0.10	3.000	0	81.8	83.9	122			S

102

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120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- 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

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WO#: 1604C22 06-May-16

Hull Environmental Analysis i aboratory 4001 Hawkins XI, Albuquerque, NM 87199 TEL 505-345-3975 FAY 505-345-4197 Webitte, www.hallenvironmental.com

Sample Log-In Check List

PERMISSION CONTRACTOR OF THE PARTY OF THE PA	915R8691W18588901\$945896994936919456919459695969194691946999999999999		-	Management of the local data and the	CONTRACTOR OF CONT	CONTRACTOR	
Client Name	Yates Petroleum Corpora	Work Order Number:	16040	22	and a second	RoptN	lo: 1
Received by/da	te: Aa	04/28/14					
Logged By:	Ashley Gallegos	4/28/2016 9:10:00 AM			FAR		
Completed By	Ashley Gallegos	4/28/2016 9:42:11 AM			st-t		
Reviewed By:	Q	04/28/16			0		
Chain of Cus	stody	01/20110					
1. Custody set	als intact on sample bottles?		Yes		No	Not Present	1
2. Is Chain of	Custody complete?		Yes	V	No	Not Present	
3. How was th	e sample delivered?		Couri	er			
Log In							
4. Was an att	empt made to cool the sample	cs?	Yes	4	No	NA	
5. Were all sa	mples received at a temperat	ure of >0" C to 5.0"C	Yes	v	No	NA	
6. Sample(s)	in proper container(s)?		Yes	Y	No		
7. Sufficient sa	ample volume for indicated le	st(s)?	Yes	V	No		
8. Are sample	s (except VOA and ONG) pro	perly preserved?	Yes	x	No		
9. Was preser	vative added to bottles?		Yes		No 🔽	NA	and a construction
10.VOA vials h	ave zero headspace?		Yes		No	No VOA Vials	/
11. Were any s	sample containers received br	oken?	Yes		No 🗹		
						# of preserved bottles checked	
	work match bottle labels? epancies on chain of custody)		Yes	v	No	for pH	2 or >12 unless noted)
	is correctly identified on Chair		Yes	~	No	Adjusted?	and show a strength when the strength of the strength of
	hat analyses were requested?		Yes		No 🗍		
15. Were all ho	Iding times able to be met? / customer for authorization.)		Yes	1-4	No 🗔	Checked b	y.
Enocial Man	dling (if applicable)						
				f	10000		
	notified of all discrepancies w	6 (Remini Mentana and General G	Yes	L	No	NA N	
	n Notified:	Date				teres das	
By W Rega			eMa	il [F	hone 🔄 l l'ax	In Person	
-	t Instructions:	n se la management de la m I	Ministration (1997)	angan sa	nalesta in statistici ente distanto (nell'artical par		R.
17. Additional	1						
18. Cooler Inf	ormation						
Ccoler I	No Temp C Condition	Seal Intact Seal No Yes	Seal Da	ate	Signed By		
A.							

NTAL	TORY								(N	, ot	Y) s	Air Bubble:					*****	********	and (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		uno i Nosana			LLAR DOLLAR CON	show BTEX se put i by	tu Constantin
HALL ENVIRONMENTAL	ANALYSIS LABORATORY	nmental.com	4901 Hawkins NE - Albuquerque, NM 87109	x 505-345-4107	Analysis Request	-			808	/ sc	od) cide	(1,4) snoinA 1803 1 808 170 (VO 1908 (VO) 1908	×					99999999999999999999999999999999999999							Remarks: TPH: 8015B, BTEX: 8021B. Please show results as mg/kg. Anions: Chloride Only. Please put chlorides on a separate report. Results needed by	I Nank you. It he clearly rotated on the apoly
HALLEN	ANALYSI	www.hallenvironmental.com	kins NE - Albu	505-345-3975 Fax	Analysi				(H) (11)	PAI PAI	od or etal	EDB (Мейл 8310 (РИА RCRA 8 М							11 - 11 - 11 - 11 - 11 - 11 - 11 - 11						Remarks: TPH: 8015B, BTEX: 8021B. results as mg/kg. Anions: Chloride O chlorides on a separate report. Resu	ay 4, 2010. 102
			4901 Haw	Tel. 505-3		lino	o se	ອ)) 89 Hal	310 + 3	981 1993 1993	ги + ХЭТ8 втех + М Меф Иеф	X X	××	X X	×	CONTINUES (Line of the	COLDUCTION OF	of the second second	at least sector	aniti contro	J Marson (Jackson)	Langu and Post of		Remarks: TPF results as mg/ chlorides on a	Wednesday, May 4, 2010.
	X Standard Need by Wednesday 5/4/16		eral #10H		lease	. We de National Service	B n	020	Amber Griffin HC	ON D	6	HEAL NO.	-00/	600-	-029	-004		nugilinatetire o	un connection of						Dete Time $\frac{1}{2\beta/6} \frac{1}{\sigma/10} \frac{1}{10}$. This source as motion of this
lime:	I Need by Wed	ü	Lusk AHB Federal #10H		4/21/2016 Release	sger:	Amber Griffin	PO#205-2020	Aml	Yes (emperature: 5,	Preservativ e Type	lce	ice	<u>S</u>	ice									april of	and the set of the second second
I um-Around I ime:	X Standard	Project Name:	Lu	Project #:		Project Manager			Sampler:	On Ice:		Container Type and #	1 - 402.	1 - 4oz.	1 - 4oz.	1 - 402.	OMINICALINATION								Received by	
Chain-of-Custody Record	Corporation			a, NM 88210		agriffin@vatespetroleum.com		Level 4 (Full Validation)				Sample Request ID	Overspray 1-1'	Overspray 2-1'	Overspray 3-1'	Pooling 1-1'					e				d by: e. Oniffin dby:	VPBGNESQBY, IMBY 4, 2010. INDIK YOU.
n-of-Cust	Yates Petroleum Corporation		S:	05 South 4th Street Artesia, NM	575-513-8	adriffin@N						Time Matrix	7:40 Soil (HOURDOOTLAND A	100001234207 24195249100204	ENGENERANDER Militereneten	ini (nining dari) prosina (1946)	on filenom P			a statistica da companya d	e: Relinquished by: 00 <i>Chubel</i>	norm) (National Association
Chai	Client: Ya		Mailing Address:	105 South 4th	Phone #	smail or Fax#:	DA/OC Packade:	□ Standard	Accreditation:	D NELAP	J EDD (Type)	Date	4/26/2C16	4/26/2016	4/26/2016	4/26/2016									Date: Time: $\frac{1}{27}/16$ S:00 Date: Time:	

-contrac a Au i. 8 B 2.2

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

May 06, 2016

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

RE: Lusk AHB Federal #10H

OrderNo.: 1604C22

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/28/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

	ates Petroleum Corpora usk AHB Federal #10H			L	ab Order: 1604C2	22
Lab ID: Client Sample ID:	1604C22-001 Overspray 1-1'				: 4/26/2016 7:40:00 AM : SOIL	[
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					yst: LGT
Chloride		ND	30	mg/Kg	20 5/2/2016 6:06:25 PM	1 25106
Lab ID:	1604C22-002		ļ	Collection Date	: 4/26/2016 8:00:00 AM	1
Client Sample ID:	Overspray 2-1'			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Anal	yst: LGT
Chloride		ND	30	mg/Kg	20 5/2/2016 6:43:39 PM	1 25106
Lab ID:	1604C22-003			Collection Date	: 4/26/2016 8:20:00 AM	1
Client Sample ID:	Overspray 3-1'			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS				Anal	yst: LGT
Chloride		ND	30	mg/Kg	20 5/2/2016 6:56:03 PM	A 25106
Lab ID:	1604C22-004		1	Collection Date	e: 4/26/2016 9:00:00 AN	1
Client Sample ID:	Pooling 1-1'			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	6700	300	mg/Kg	Anal 200 5/3/2016 6:28:23 PM	yst: LGT M 25106

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 1604C22

Date Reported: 5/6/2016

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

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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:		Petroleum Co AHB Federal #	····	on							
Sample ID	MB-25106	SampT	ype: mb	lk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 25	106	F	RunNo: 3	3940				
Prep Date:	5/2/2016	Analysis D	ate: 5/	2/2016	S	SeqNo: 10	045729	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-25106	SampT	ype: Ics		Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 25	106	F	RunNo: 3	3940				
Prep Date:	5/2/2016	Analysis D	ate: 5/	2/2016	5	SeqNo: 10	045730	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.1	90	110			

Qualifiers:

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

Page 2 of 2

1604C22 06-May-16

WO#:

Hall Environmental Analysis Laboratory 4001 Hawkins XE Albuquerque, SM 87199 TEL 505-345-3975 FAV: 305-345-4197 Website, www.hallenvironmental.com

Sample Log-In Check List

Client Name.	Yates Petroleum Corpora	Work Order Number:	1604C22	Hending Commentation Constrained Constrained Constrained Constrained Constrained Constrained Constrained Constr	RoptNo: 1
Received by/date	· Ja	04/28/14			
Logged By:	Ashley Gallegos	4/28/2016 9:10:00 AM		Az	
Completed By	Ashley Gallegos	4/28/2016 9:42:11 AM		J-A-J	
Reviewed By:	G	04/28/16		0	
Chain of Cus	tody	01/2011-			
1. Custody sea	Is intact on sample bottles?		Yes	No	Not Present 🖌
2. Is Chain of C	Sustody complete?		Yes 🔽	No	Not Present
3. How was the	sample delivered?		Courier		
<u>Log In</u>					
4. Was an atte	mpt made to cool the sample	cs?	Yes 🗸	No	NA
5. Were all san	nples received at a temperat	ure of i>0" C to 5 0"C	Yes 🗸	No	NA
6. Sample(s) in	n proper container(s)?		Yes 🗸	No	
7. Sufficient sa	mple volume for indicated te	st(s)?	Yes 🗸	No 🗌	
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🖌	No	
9. Was preserv	ative added to bottes?		Yes	No 🗹	NA 🗍
10.VOA viais ha	ave zero headspace?		Yes	No	No VOA Vials 🔽
11. Were any sa	ample containers received br	oken?	Yes	No 🗹	
7.6			-		# of preserved bottles checked
ing and second second	vork match bottle labels? pancies on chain of custody)		Yes 🗸	No 🛄	for pH (<2 or >12 unless noted)
	correctly identified on Chair		Yes 🗸	No	Adjusted?
	at analyses were requested?		Yes 🗸	No	
	ding times able to be met? customer for authorization.)		Yes 🗸	No 🛄	Checked by:
Special Hand	lling (if applicable)				
16. Was client n	otified of all discrepancies w	ith this order?	Yes	No	NA 🗹
Persor	n Notified:	Date	Normala da Tanàna (norman) da amina da pananana	en an	
By Wh	10m	Va:	eMail	Phone 🔄 Fax	In Person
Regar	ding:	Managaran (1999) (Mangaran Palanan) (Saratan Indonesia (Data Managaran Calanan) (Data Managaran)	NGM kalen Marin Marin Marine ar Using Kal	Kanton Katani da Lanano Miconomico (La Katan), di Lo kata (La Kat	Normal Norma Analysis Contra Charles Contra Contr
Client	Instructions:	(f 1999; f 1997; f 1997; f 1996; f 1996	den mener mener finsk finsk forsk forsk finsk forsk		nn feastach an thao sheadann tha ann an tha ann ann ann ann ann ann ann ann ann a
17. Additional r	emarks:				
18. <u>Cooler Info</u> Ccoler N 1		Seal Intact Seal No Yes	Seal Date	Signed By	

, ma	と								(N	, OL	Y) 8	Air Bubble:			seasticite= redu Sector== halfite=				XEX	nonen (natue anti keinenden
HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	MILLO MILLO		а, _s .	(L.) (H) (H)	504 5 10 ³ 103 103	od cide cide A)	dteM) H9T dt9M) 8D3 AN9) 0168 M 8 A9D9 M 8 A9D9 V, 808 M 92) 0528 M 92) 0528	×	×	x	×			Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Anions: Chloride Only. Please put	
			4901 H	Tel. 5(-	Constant of the owner	-	BTEX + Metho	×	×	×	×		2011 - Clair Million (1999)	arks: ts as n	iesday
	ГЦ		TO THE REPORT	autorite the second		Million Martin	The second second second	and the second second				BTEX + M	×	×	×	×			Remarks: results at	Wedr
um-Around Time:	X Standard Need by Wednesday 5/4/16	Project Name:	Lusk AHB Federal #10H	Project #.	4/21/2016 Release	Project Manager:	Amber Griffin	PO # 205-2020	Sampler: Amber Griffin HC	ix Yes	Sample Temperature: \mathcal{S}, \mathcal{B}	Container Preservativ HEAL No. Type and # e Type /// eD4C33	- 4oz. Ice - 00/	- 40z. Ice -003	1 - 402. Ice -003	- 402. Ice - (204			E Cant off	Received by. / Date Time
Chain-of-Custody Record	Yates Petroleum Corporation	<u>č.</u>		105 South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111	(PHBoodiae		Level 4 (Full Validation)	SE	Other		Matrix Sample Request ID	Overspray 1-1' 1	Overspray 2-1'	Overspray 3-1'	Paoling 1-1'			Griffin	۲.
1-of-(es Petr		12	Street /	272	- De				D		Time	7:40 Soil	8:00 Soil	8:20 Soil	9:00 Soil	anna an Anna a	SIMMAT Initiations in the State S	ALCONTRACTORY IN THE RESIDENCE	Ballati Ali Science Statement
Chair	Yat		Mailing Address:	uth 4th	 #F	г Рахн:	2A/QC Package:	dard	tation:	AP	EDD (Type)								Jate: Time: 1/27/16 8:00	Ê
-	Client:		Mailing	105 Sol	phone #	smail or Fax#:	2A/QCF	Standard		J NELAP	EDD	Date	4/26/2016	4/26/2016	4/26/2016	4/26/2016			Jate: 27	Jate:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

May 13, 2016

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

RE: Lusk AHB Federal 10H

OrderNo.: 1605293

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/6/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1605293

Date Reported: 5/13/2016 **CLIENT:** Yates Petroleum Corporation Lab Order: 1605293 Lusk AHB Federal 10H **Project:** Lab ID: 1605293-001 Collection Date: 5/4/2016 8:34:00 AM Client Sample ID: Pooling 1-2' Matrix: SOIL Analyses Result **PQL** Qual Units **DF** Date Analyzed **Batch ID** EPA METHOD 300.0: ANIONS Analyst: LGT Chloride 3300 150 mg/Kg 100 5/12/2016 2:11:54 PM 25250 Lab ID: 1605293-002 Collection Date: 5/4/2016 8:38:00 AM Client Sample ID: Pooling 1-3' Matrix: SOIL Analyses PQL Qual Units Result **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 4400 150 100 5/12/2016 2:24:18 PM mg/Kg 25250 Lab ID: 1605293-003 Collection Date: 5/4/2016 8:41:00 AM Client Sample ID: Pooling 1-4' Matrix: SOIL Result Analyses PQL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 8300 750 500 5/12/2016 2:36:42 PM 25250 mg/Kg Lab ID: 1605293-004 Collection Date: 5/4/2016 8:45:00 AM Client Sample ID: Pooling 1-5' Matrix: SOIL **PQL** Qual Units Analyses Result **DF** Date Analyzed **Batch ID** EPA METHOD 300.0: ANIONS Analyst: LGT Chloride 4000 150 mg/Kg 100 5/12/2016 2:49:06 PM 25250 Collection Date: 5/4/2016 8:47:00 AM Lab ID: 1605293-005 Client Sample ID: Pooling 1-6' Matrix: SOIL Analyses Result **PQL** Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 4800 300 200 5/12/2016 3:01:31 PM 25250 mg/Kg

Hall Environmental Analysis Laboratory, Inc.

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

Oualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

						ate Reported. 5/15	/2010
	Yates Petroleum Corporat Lusk AHB Federal 10H	tion		L	ab O	rder: 16052	293
Lab ID:	1605293-006		(Collection Date:	5/4	/2016 8:50:00 AN	1
Client Sample ID:	Pooling 1-7'			Matrix:	SO	IL	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					An	alyst: LGT
Chloride		2300	75	mg/Kg	50	5/12/2016 3:13:55	PM 25250
Lab ID:	1605293-007		(Collection Date:	5/4	/2016 8:53:00 AN	1
Client Sample ID:	Pooling 1-8'			Matrix:	SO	IL	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					An	alyst: LGT
Chloride		1400	75	mg/Kg	50	5/12/2016 3:26:20	PM 25250
Lab ID:	1605293-008			Collection Date:	5/4	/2016 8:56:00 AN	Л
Client Sample ID:	Pooling 1-9'			Matrix	s SO	IL	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					An	alyst: LGT
Chloride		540	30	mg/Kg	20	5/10/2016 4:07:01	
Lab ID:	1605293-009			Collection Date:	: 5/4	/2016 8:59:00 AN	Л
Client Sample ID:	Pooling 1-10'			Matrix	SO:	OIL	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					An	alyst: LGT
Chloride		61	30	mg/Kg	20	5/10/2016 4:19:25	PM 25250

Hall Environmental Analysis Laboratory, Inc.

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

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 Page 2 of 3

Analytical Report Lab Order: 1605293

Date Reported: 5/13/2016

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Yates Petroleum Corporation

Project: Lusk AHB Federal 10H

Sample ID MB-25250	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 25250	RunNo: 34133		
Prep Date: 5/10/2016	Analysis Date: 5/10/2016	SeqNo: 1052258	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride				
	ND 1.5			
Sample ID LCS-25250	SampType: LCS	TestCode: EPA Method	300.0: Anions	
		TestCode: EPA Method RunNo: 34133	300.0: Anions	
Sample ID LCS-25250	SampType: LCS		300.0: Anions Units: mg/Kg	
Sample ID LCS-25250 Client ID: LCSS	SampType: LCS Batch ID: 25250 Analysis Date: 5/10/2016	RunNo: 34133		RPDLimit Qual

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

Page 3 of 3

WO#: 1605293

13-May-16

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:	1605	293			Rcp	INo: 1	
Received by/dat	he: JA	05/06/14							
Logged By:	Ashley Gallegos	5/6/2016 10:35:00 AM			AJ	•			
Completed By:	Ashley Gallegos	5/6/2016 11:22:46 AM			A	•			
Reviewed By:	Cha	05/06/16			V				
Chain of Cus	atody	0 11 0 910							
1. Custody sea	als intact on sample bottles?		Yes	ĽJ	No	[_]	Not Present		
2. Is Chain of	Custody complete?		Yes		No		Not Present	[]	
3. How was the	e sample delivered?		Cou	rier					
Log In									
4. Was an atte	empt made to cool the samples	?	Yes		No	[]]	NA	[""]	
5. Were all sa	mples received at a temperatur	e of >0° C to 6.0°C	Yes		No	[]	NA	[]]	
6. Sample(s) i	n proper container(s)?		Yes		No	[7]			
7. Sufficient sa	ample volume for indicated test	(s)?	Yes		No				
8. Are sample:	s (except VOA and ONG) prope	erly preserved?	Yes		No	\Box			
9. Was preser	vative added to bottles?		Yes	[]]	No		NA	[]	
10.VOA vials h	ave zero headspace?		Yes	["]	No	[]	No VOA Vials		
	ample containers received brol	ken?	Yes		No				
							# of preserved bottles checke		
	work match bottle labels?		Yes		No	[]]	for pH:		
	epancies on chain of custody)	Constant O		[]		()	Adjusted		>12 unless noted)
	s correctly identified on Chain on the second se	r Custody?	Yes		No		Aujustet		
	Iding times able to be met?		Yes		No No		Checked	bur	
	customer for authorization.)		Yes	5.01	140	1.1	Checked	by.	
Special Hand	dling (if applicable)								
	notified of all discrepancies with	this order?	Yes		No	ī-)	NA		
Perso	n Notified:	Date	11.228 la 14.141	- 28 - 1 0 - 10 - 10 - 10 - 10 - 10 - 10 - 10	forfall fail and an order of an object and a				
By W	hom:	· · · · · · · · · · · · · · · · · · ·	eMa	ail Í	} Phone []	Fax	[]] In Person		
Rega	rding:	 	ورجه تعبيق أنظاء ال	ann actairt					
Client	Instructions:	kala hérda hun varupta ti diri na karan atar puruk unit kuria karan k		ha Kasi ng par is	hdalaan maraya ya sabi iliinin da a		arren kalelinet zulet manananan a gangan warn ten	ia- ui	
17. Additional	remarks:								
18. <u>Cooler Inf</u>	ormation								
Cooler N		Construction of the second	ieal Da	ate	Signed B	y	-		
Page 1 c	of 1						3.0		

HALL ENVIRONMENTAL	LABORATORY		37109	201							Troing lines	Air Bubble:		0100103004000 5-660200010600 50100000000000										Results needed by		e analytical report.
NO	ABC	www.hallenvironmental.com	Albuquerque, NM 87109	505-345-4107	lest	(December 2017)				VC		OV) 80828 m92) 0728					ediconatori e	1111 012401-00-	okoltanan					Result		ated on th
2R	S S	ument	nerqué	c 505-	Analysis Request					ometric and		itse9 1808	204020-0020			Side of the second s						NAMES HOLDS OF COLUMN				early not
N N	ANALYSIS	enviro		Fax	alysis	os	rOc	<u> </u>	ЭN.	-		RCRA 8 M.	×	×	×	×	×	×	~	×	×			Chloride Only. 316. Thank you		will be c
	AL	whall	4901 Hawkins NE -	3975	A	eaconunctinde				-		AN9) 0168				Distance of the second	чтомосложе	THE REPORT OF			resolution (b)			N		cted cata
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na Lime:	X Standard Need by 5/12/2016		Lusk AHB Fec		4/21/2016 Release	Ger:	Amber Griffin	PO # 205-2020	An	C Yes	perature: / /	Preservativ e Type	÷											844 0.		credited laboratory
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Chain-of-Custody Record	ooration			88210	575-513-8799 or 575-748-4111	agriffin@yatespetroleum.com		Level 4 (Full Validation)				Sample Request ID	Pooling 1-2'	Pooling 1-3"	Pooling 1-4*	Pooling 1.5	Pooling 1-6'	Pooling 1-7	Pooling 1-8	Pooling 1-9*	Pooling 1-10'			- ville		If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.
stod	n Cor			a, NN	-8799	Qvates						ů	Pool	Pool	Pooli	Pooli	Pooli	Pooli	Pooli	Pooli	Pooli	1120410109101 B 100413	Industry Distances	d ty	2 B	hitted to
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	Client: Y		Valling Address:	105 South 4th Street Artesia, NM	phone #:	email or Fax#.	QA/QC Package	□ Stancard	Accreditation:	D NELAP	□ EDD (Type)	Date	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/4/2016	5/4/2016			75/10 9	Cate:	If nex