

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2000



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

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JOHN A. YATES
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JAMES S. BROWN
CHIEF OPERATING OFFICER

February 3, 2016

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

RE: Buho BQH State #1H
30-015-38223
Section 35, T26S-R28E
Eddy County, New Mexico

Mr. Bratcher or Ms. Patterson,

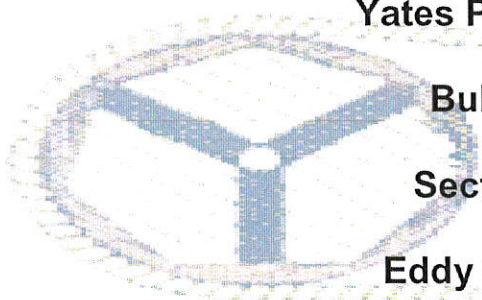
Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on June 22, 2014 (2RP-2366). The release was 24 barrels of produced water and 1 barrel of crude oil released, with 24 barrels of produced water and 1 barrel of crude oil recovered.

With NMOCD and NMSLO 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

Buho BQH State #1H

Section 35, T26S-R28E

Eddy County, New Mexico

February 3, 2016

I. Location

The release area is located approximately 15.2 miles south of Malaga, NM on Highway 285 and approximately 0.8 miles west of Highway 285 on a lease road.

II. Background

On June 22, 2014, Yates had a release of 24 barrels produced water and 1 barrel of crude oil, with 24 barrels produced water and 1 barrels of crude oil recovered. The area affected from this release was on the production pad for the well. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on July 1, 2014.

On August 19, 2014 Yates returned to the site and collected initial soil samples from the depths of 1' – 4' from Section 1 and 1' – 3' from Section 2 of the release area using a backhoe. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides SM4500Cl-B. Yates received the analytical results on August 27, 2014 and September 11, 2014 (Reports H402568 and H402739 attached to this work plan). The analytical results showed that both BTEX and TPH were at levels below NMOCD RRAL's for both Section 1 and Section 2 of the release area. The analytical results also showed delineated chloride levels from Section 2 of the release area, but elevated chloride levels from Section 1 of the release area, and Yates determined that further vertical delineation of chlorides was needed for Section 1 of the release area.

On December 7, 2015 Yates returned to the site and collected further soil samples from Section 1 of the release are at the depths of 5' – 6' 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 December 21, 2015 (Reports 1512601 and 1512602 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 70 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the following:

Depth to ground water	50-99'
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 4.5' from Section 1 of the release area and 1.5' from Section 2 of the release area. The excavation will be approximately 33' long, 18' wide for Section 1 and approximately 33' long, 24' wide for Section 2. Once all soils have been excavated the excavation will be backfilled 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.

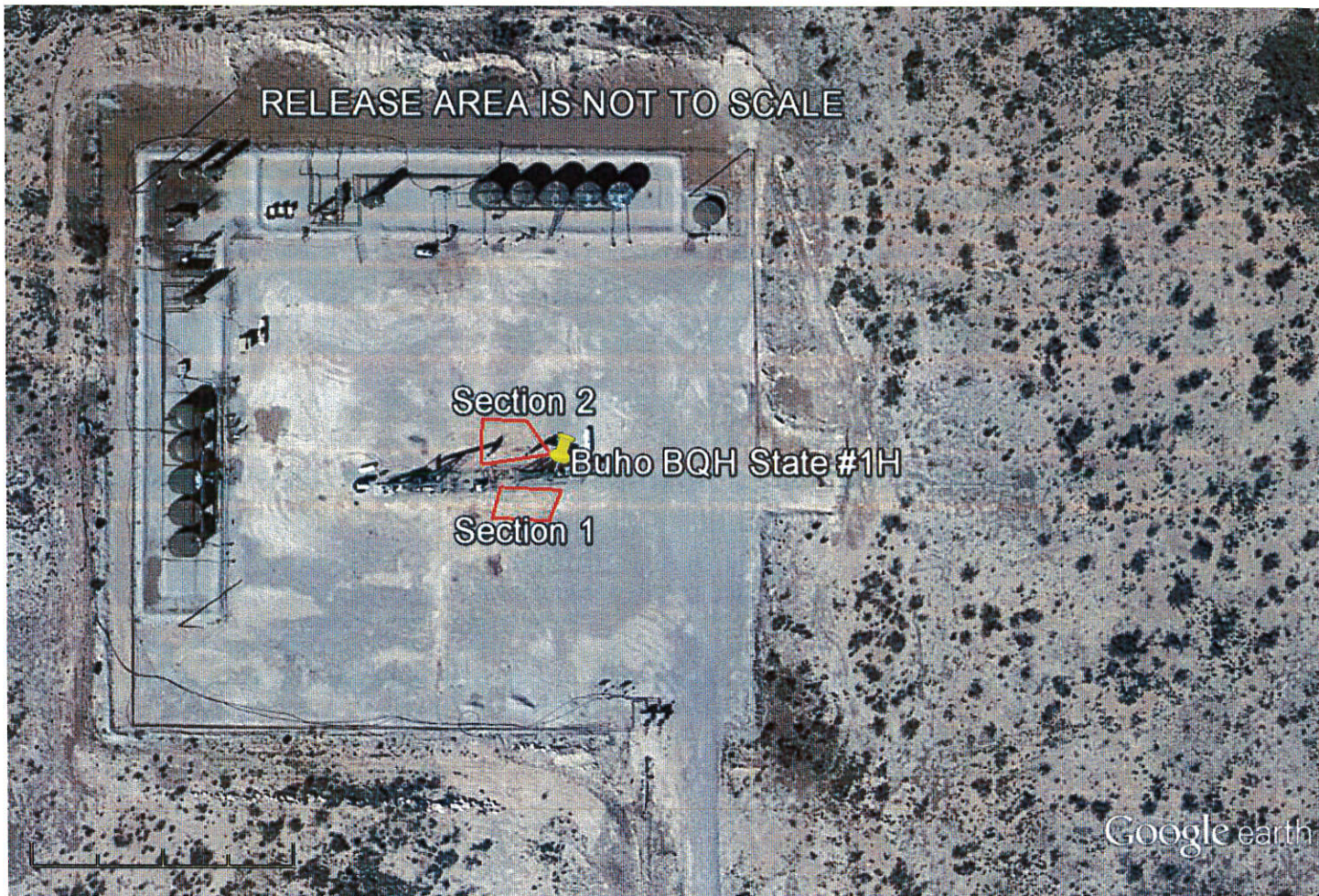
Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD and NMSLO requesting closure of this release.



Google earth

miles 2
km 4





Google earth

feet 400
meters 100



Buho BQH State #1H

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
1-1'	Release Area	8/19/2014	H402568	Grab/Backhoe	1'	ND	ND	10.8	10.8	4,400
1-2'	Release Area	8/19/2014	H402568	Grab/Backhoe	2'	ND	ND	ND	ND	3,880
1-3'	Release Area	8/19/2014	H402568	Grab/Backhoe	3'	ND	ND	ND	ND	3,280
1-4'	Release Area	8/19/2014	H402739	Grab/Backhoe	4'					3,040
1-5'	Release Area	12/7/2015	1512602	Grab/Backhoe	5'					1,100
1-6'	Release Area	12/7/2015	1512601	Grab/Backhoe	6'					470
2-1'	Release Area	8/19/2014	H402568	Grab/Backhoe	1'	ND	ND	ND	ND	3,800
2-2'	Release Area	8/19/2014	H402568	Grab/Backhoe	2'	ND	ND	ND	ND	784
2-3'	Release Area	8/19/2014	H402568	Grab/Backhoe	3'	ND	ND	ND	ND	352

Site Ranking is TEN (10). Depth to Ground Water approximately 70' per Chevron Texaco Trend Map

All results are ppm.Chlorides for documentation.

Released: 24 B/PW, 1 B/O; Recovered: 24 B/PW, 1 B/O. Release Date: 6/22/2014. 2RP-2366

August 27, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BUHO BQH STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/21/2014	Sampling Date:	08/19/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	BUHO BQH STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	30-015-38223	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: 1-1' (H402568-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/25/2014	ND	400	100	400	0.00	

Sample ID: 1-2' (H402568-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	08/25/2014	ND	400	100	400	0.00		

Sample ID: 1-3' (H402568-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	08/25/2014	ND	400	100	400	0.00		

Sample ID: 2-1' (H402568-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	08/25/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	08/21/2014	Sampling Date:	08/19/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	BUHO BQH STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	30-015-38223	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: 2-2' (H402568-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	08/25/2014	ND	400	100	400	0.00		

Sample ID: 2-3' (H402568-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/25/2014	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

Fax No:

e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-2020

Project Name: Buho BQH State #1H

Project #: 30-015-38223

Project Loc: Eddy County

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
		1-1'	1'	1'	8/19/2014	9:48 AM		1	X									S			X													X
		1-2'	2'	2'	8/19/2014	9:51 AM		1	X									S			X												X	
		1-3'	3'	3'	8/19/2014	9:54 AM		1	X									S			X												X	
		2-1'	1'	1'	8/19/2014	10:08 AM		1	X									S			X												X	
		2-2'	2'	2'	8/19/2014	10:09 AM		1	X									S			X												X	
		2-3'	3'	3'	8/19/2014	10:10 AM		1	X									S			X												X	

Reinquired by: Amber Cannon Date: 8/21/14 Time: Received by: John F. Jones Date: 8/21/14 Time: 1:20

Reinquired by: Date: Time: Received by: Date: Time:

Reinquired by: Date: Time: Received by: Date: Time:

Special Instructions: **TPH: 8015B, BTEX: 8021B.** Please show BTEX results as mg/kg. **Please put chlorides on a separate report.** Thank you.

Laboratory Comments: Sample Containers Intact? VOCS Free of Headspace? Labels on container(s)? Custody seals on container(s)? Custody seals on cooler(s)? Sample Hand Delivered by Sampler/Client Rep.? UPS DHL FedEx Lone Star Temperature Upon Receipt: 59 °C



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

August 27, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BUHO BQH STATE #1H

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AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	08/21/2014	Sampling Date:	08/19/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	BUHO BQH STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	30-015-38223	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: 1-1' (H402568-01)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31		
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33		
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14		
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96		
Total BTEX	<0.300	0.300	08/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2014	ND	192	95.9	200	0.368	
DRO >C10-C28	10.8	10.0	08/22/2014	ND	199	99.4	200	3.77	

Surrogate: 1-Chlorooctane 95.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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*=Accredited Analyte

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Project Number:	30-015-38223	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: 1-2' (H402568-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31		
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33		
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14		
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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/22/2014	ND	192	95.9	200	0.368		
DRO >C10-C28	<10.0	10.0	08/22/2014	ND	199	99.4	200	3.77		

Surrogate: 1-Chlorooctane 86.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/21/2014
Reported: 08/27/2014
Project Name: BUHO BQH STATE #1H
Project Number: 30-015-38223
Project Location: EDDY COUNTY, NM

Sampling Date: 08/19/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 2-2' (H402568-05)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31		
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33		
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14		
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96		
Total BTEX	<0.300	0.300	08/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/22/2014	ND	192	95.9	200	0.368		
DRO >C10-C28	<10.0	10.0	08/22/2014	ND	199	99.4	200	3.77		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/21/2014	Sampling Date:	08/19/2014
Reported:	08/27/2014	Sampling Type:	Soil
Project Name:	BUHO BQH STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	30-015-38223	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: 2-3' (H402568-06)

BTEx 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31		
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33		
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14		
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96		
Total BTEX	<0.300	0.300	08/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2014	ND	192	95.9	200	0.368	
DRO >C10-C28	<10.0	10.0	08/22/2014	ND	199	99.4	200	3.77	

Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

Fax No: 575-748-4111 or 575-513-8799
e-mail: acannon@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Buho BQH State #1H

Project #: 30-015-38223

Project Loc: Eddy County

PO #: 205-2020

(lab use only)

ORDER #: H4025168

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
	1-1'	1'	1'	8/19/2014	9:48 AM		1	X								S	X															X
	1-2'	2'	2'	8/19/2014	9:51 AM		1	X								S	X															X
	1-3'	3'	3'	8/19/2014	9:54 AM		1	X								S	X															X
	2-1'	1'	1'	8/19/2014	10:08 AM		1	X								S	X															X
	2-2'	2'	2'	8/19/2014	10:09 AM		1	X								S	X															X
	2-3'	3'	3'	8/19/2014	10:10 AM		1	X								S	X															X

Special Instructions: **TPH: 8015B, BTEX: 8021B.** Please show BTEX results as mg/kg. **Please put chlorides on a separate report.** Thank you.

Relinquished by: Amber Cannon Date: 8/21/14 Time: Received by: Jeffery Jones Date: 8/21/14 Time: 1:20

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Laboratory Comments:

Sample Containers Intact? ☒ N

VOCs Free of Headspace? ☒ N

Labels on container(s) ☒ N

Custody seals on container(s) ☒ N

Custody seals on cooler(s) ☒ N

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

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

Temperature Upon Receipt: 59 °C

September 11, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BUHO BQH STATE #1H

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2014	Sampling Date:	08/19/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	BUHO BQH STATE #1H	Sampling Condition:	Cool & Intact
Project Number:	30-015-38223	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: 1-4' (H402739-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	09/10/2014	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

December 21, 2015

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

RE: Buho BQH State #1H

OrderNo.: 1512602

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/11/2015 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 1512602

Date Reported: 12/21/2015

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Yates Petroleum Corporation**Client Sample ID:** 1-5'**Project:** Buho BQH State #1H**Collection Date:** 12/7/2015 10:10:00 AM**Lab ID:** 1512602-001**Matrix:** SOIL**Received Date:** 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	1100	30		mg/Kg	20	12/16/2015 2:27:38 PM	22833

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#: 1512602

21-Dec-15

Client: Yates Petroleum Corporation

Project: Buho BQH State #1H

Sample ID	MB-22833	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	22833	RunNo:	30906					
Prep Date:	12/16/2015	Analysis Date:	12/16/2015	SeqNo:	944921	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22833	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	22833	RunNo:	30906					
Prep Date:	12/16/2015	Analysis Date:	12/16/2015	SeqNo:	944922	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	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 Corporat

Work Order Number: 1512602

RcptNo: 1

Received by/date:

SA 12/11/15

Logged By: Lindsay Mangin

12/11/2015 9:40:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

12/14/2015 8:41:47 AM

Lindsay Mangin

Reviewed By:

SA

12/14/15

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	2.3	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Client: Yates Petroleum Corporation

☒ Standard ☐ Rush

Project Name:

Mailing Address:

Buho BQH State #1H

Project #:

105 South 4th Street Artesia, NM 88210

2RP-2366

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

email or Fax#: agriffin@yatespetroleum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Project Manager:

Amber Griffin

PO # 205-2020

Sampler:

Amber Griffin AG

ONCE ☒ YES ☐ NO

Sample Temperature:

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

HEAL No.

12/7/2015

10:10

Soil

1-5'

1 - 4oz.

None

-001

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

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 Bubble (or N)

Analysis Request

Date:

12/10/15

8:00A

Relinquished by:

Amber Griffin

Received by:

Joe Oudet

Date

12/10/15

0940

Time

Remarks: Chloride Only.

Date

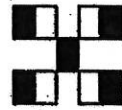
Time

Received by:

Date

Time

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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



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

January 04, 2016

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

RE: Buho BQH State #1H

OrderNo.: 1512601

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/11/2015 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 ReportLab Order **1512601**Date Reported: **1/4/2016****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Yates Petroleum Corporation**Client Sample ID:** 1-6'**Project:** Buho BQH State #1H**Collection Date:** 12/7/2015 10:30:00 AM**Lab ID:** 1512601-001**Matrix:** SOIL**Received Date:** 12/11/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	470	30		mg/Kg	20	12/16/2015 2:15:13 PM	22833

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#: 1512601

04-Jan-16

Client: Yates Petroleum Corporation

Project: Buho BQH State #1H

Sample ID	MB-22833	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	22833	RunNo	30906					
Prep Date	12/16/2015	Analysis Date	12/16/2015	SeqNo	944921	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22833	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	22833	RunNo	30906					
Prep Date	12/16/2015	Analysis Date	12/16/2015	SeqNo	944922	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	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 Corporat

Work Order Number: 1512601

ReptNo: 1

Received by/date:

SA

12/11/15

Logged By: Lindsay Mangin

12/11/2015 9:40:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

12/14/2015 8:39:44 AM

Lindsay Mangin

Reviewed By:

SA

12/14/15

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

