MARTIN YATES, III

FRANK W. YATES 1936-1986

> S.P YATES 1914-2008



JOHN A. YATES SR. CHAIRMAN EMERITUS

JOHN A. YATES JR.

DOUGLAS E. BROOKS PRESIDENT / CEO

105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

June 20, 2016

Mr. Mike Bratcher/ Ms. Heather Patterson NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Allison CQ Federal #10 Battery

30-015-26195

Section 13, T19S-R24E Eddy County, New Mexico

Dear Mr. Bratcher / Ms. Patterson,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated October 9, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after July 5, 2016.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle Environmental Regulatory Agent

Enclosure(s)

Yates Petroleum Corporation

Allison CQ Federal #10 Battery Work Plan

Section 13, T19S-R24E

Eddy County, New Mexico

June 20, 2016

2RP-3325

I. Location

Take HWY 285 south of Artesia for 13 miles, then turn west on Rocking R Red Road and go 8.1 miles before turning north on lease road for .75 mile to the location.

II. Background

On October 9, 2015, Yates submitted to the NMOCD District II office a Form C-141 for the release of 35 B/PW with 5 B/PW recovered. The affected area is approximately 225 feet by 140 feet behind the bermed battery running north to south. Initial delineation samples were taken (11/19/2015) and sent to a NMOCD approved laboratory (11/30/2015, results enclosed). Further sampling was conducted in the S4 and S5 release areas (12/04/2015) and sent to a NMOCD approved laboratory (12/28/2015, results enclosed). Continued sampling was conducted (1/19/2016) and sent to a NMOCD approved laboratory (02/02/2016, results enclosed). Additional sampling was conducted in the S3 sample area (02/09/2016) and sent to a NMOCD approved laboratory (02/24/2016, results enclosed)

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 13, T19S-R24E) that depth to groundwater is approximately 240' 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 as following:

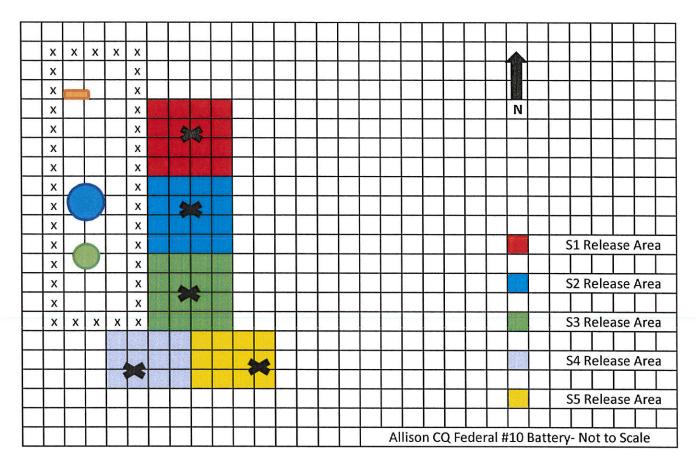
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

The area consists of soils that are sand and loamy top soil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results, the depth to ground water (240'), a decrease in chloride concentration, and one (1) foot already excavated and hauled to disposal, Yates Petroleum Corporation proposes to excavate three (3) feet in all release areas, hauling excavated soils to an NMOCD approved facility for disposal. Yates will then install a 20 ml synthetic liner to prohibit percolation of moisture deeper into the subsurface, restricting chloride migration from penetrating deeper towards groundwater or rising back to the surface. Yates will then backfill the excavated area with two (2) feet of caliche, followed by two (2) feet of topsoil to allow for vegetative repopulation of the release site. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.



Site Ranking is ten (0). DTGW >100' (approximately 240', Section 13, T19S-R24E, per Trend Map)

All results are ppm. Chlorides for documentation

Released: 30 B/PW; Recovered: 5 B/PW Release Date: 09/28/2015 2RP-3325

Analytical ID Sample ID Sample Date Sample Type DRO Depth BTEX GRO Chlorides S1-1' H503078 11/19/2015 1' 0.188 <10.0 <10.0 Backhoe 11100 S1-2' H503078 11/19/2015 2' <10.0 <10.0 Backhoe < 0.3 13300 H503078 11/19/2015 31 < 0.3 <10.0 <10.0 Backhoe 13600 S1-4' 1512603 11/19/2015 Backhoe 4' N/A N/A N/A 10000 1512603 11/19/2015 Backhoe 5' N/A N/A N/A 6700 S1-6¹ 1512603 11/19/2015 Backhoe 6' N/A 3100 N/A N/A 7' S1-7' 1/19/2016 N/A N/A 1601861 Backhoe N/A 4300 51-9" 9' 1601861 1/19/2016 Backhoe N/A N/A N/A 930 S1-11' 1601861 1/19/2016 Backhoe 11' N/A N/A N/A 670 S1-13¹ 1601861 1/19/2016 13' N/A Backhoe N/A N/A 220 S2-1' H503078 11/19/2015 Backhoe 1' < 0.3 <10.0 <10.0 12500 S2-21 2' H503078 11/19/2015 Backhoe < 0.3 <10.0 <10.0 9200 S2-31 H503078 11/19/2015 31 Backhoe < 0.3 <10.0 <10.0 7860 S2-41 11/19/2015 4' 1512603 Backhoe N/A N/A N/A 2700 S2-51 1512603 11/19/2015 5' Backhoe N/A N/A N/A 3900 S2-6' 1512603 11/19/2015 N/A Backhoe 6' N/A N/A 6200 S2-7' 1601861 1/19/2016 Backhoe 7' N/A N/A N/A 1700 S2-9' 1/19/2016 91 1601861 Backhoe N/A N/A N/A 120 S2-11' 1601861 1/19/2016 11' N/A N/A Backhoe N/A 120

S2-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	74
S3-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	784
S3-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	2200
S3-3 ¹	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	2200
S3-4¹	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	2200
S3-5'	1512603	11/19/2015	Backhoe	5'	N/A	N/A	N/A	4800
S3-6'	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	1200
S3-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	5600
S3-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	1500
S3-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1200
S3-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	1800
S3-15'	1602542	2/9/2016	Trackhoe	15'	N/A	N/A	N/A	3600
S3-17'	1602542	2/9/2016	Trackhoe	17'	N/A	N/A	N/A	700
\$3-19'	1602542	2/9/2016	Trackhoe	19'	N/A	N/A	N/A	ND
S4-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	12500
S4-2¹	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	8260
54-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	8000
S4-4'	1512603	12/4/2015	Backhoe	4'	N/A	N/A	N/A	8200
\$4-5'	1512603	12/4/2015	Backhoe	5'	N/A	N/A	N/A	9200
S4-6'	1512603	12/4/2015	Backhoe	6'	N/A	N/A	N/A	9300
S4-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	8500
S4-9 ¹	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	2600
S4-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1000
S4-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	230
S5-1 [']	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	3640
S5-2 ¹	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	480
S5-3 [']	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	1780
S5-4'	1512603	12/4/2015	Backhoe	41	N/A	N/A	N/A	7700
S5-5 ¹	1512603	12/4/2015	Backhoe	5'	N/A	N/A	N/A	8300
S5-6¹	1512603	12/4/2015	Backhoe	6'	N/A	N/A	N/A	4900
S5-7 ¹	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	640
S5-9¹	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	1100
S5-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1200
S5-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	81



December 14, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: ALLISON CQ FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 11/20/15 15:00.

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 accreditated 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.

Celey D. Keine

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



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-1' (H503078-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS		Approximation of the community			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	0.188	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					SAME TO SEE STATE OF THE SECOND SECON
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	11/24/2015	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	98.8	% 35-147	7			v.e 			
Surrogate: I-Chlorooctadecane	106	% 28-171	ĺ						

Cardinal Laboratories *=Accredited Analyte

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Celego Keene -



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

Received:

11/20/2015

12/14/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S1-2' (H503078-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS	New reliant to the second			- Continue de la	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.6-14	0				***************************************		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				****	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	97.2	% 35-147	ti				eringen en e		
Surrogate: 1-Chlorooctadecane	107 9	% 28-171	K.)						

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Celeg & Keene



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

Received: Reported: 11/20/2015

12/14/2015

Project Name: Project Number: ALLISON CQ FEDERAL #10

Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/19/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S1-3' (H503078-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	< 0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 73.6-14	0			COLUMNIA CONTRA COLUMNIA			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	91.7	% 35-147					v s m - 19490 - 1951 (1974) - 1944 - 1954		
Surrogate: 1-Chlorooctadecane	102	% 28-171							

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Celeg D. Kenne -



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

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-1' (H503078-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	102	% 35-147	<u>, </u>	Plant		errorrorrorrorrorrorrorrorrorrorrorrorro			
Surrogate: 1-Chlorooctadecane	106	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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

Received:

11/20/2015

11/19/2015

Sampling Date:

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-2' (H503078-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	94.6	% 35-147	7	751 TO THE					
Surrogate: 1-Chlorooctadecane	102	% 28-171							

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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,

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

Received: 11/20/2015 Reported: 12/14/2015

Project Name: ALLISON CQ FEDERAL #10

Project Number: Project Location: NOT GIVEN

NONE GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S2-3' (H503078-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					en cântiles de la company
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	97.7	% 35-147	7		**************************************		WHEN THE TOTAL PROPERTY OF THE TOTAL PROPERT		
Surrogate: 1-Chlorooctadecane	106	% 28-171							

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Received:

11/20/2015

Reported:

12/14/2015

Project Name: Project Number: ALLISON CQ FEDERAL #10

Project Location:

NONE GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3-1' (H503078-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	86.3	% 35-147	,				erujustaiden 13 olitasian soojuutessäiväy tuut		HE SOCIETA AND AND AND AND AND AND AND AND AND AN
Surrogate: 1-Chlorooctadecane	92.3	% 28-171							

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11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S3-2' (H503078-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP		The field States of the Control			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	93.5	% 35-147	7	3-11-12-11-11-11-11-11-11-11-11-11-11-11-					
Surrogate: 1-Chlorooctadecane	101	% 28-171	•						

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Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

11/19/2015

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3-3' (H503078-09)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.6-14	0				pro-Paul disma		
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	91.2	% 35-147	7	715 XX - 781 40/1 X (44				5,000,000	
Surrogate: 1-Chlorooctadecane	102	% 28-171	1						

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Sampling Type:

Soil

Project Name:

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S4-1' (H503078-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS				nama a a sa s	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PI	E 102	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS		HIMMERU AND			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	90.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	98.6	% 28-171							

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Sampling Type:

Soil

Project Name:

12/14/2015

Sampling Condition:

Cool & Intact

Project Number:

ALLISON CQ FEDERAL #10 NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S4-2' (H503078-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	97.1	% 35-147	•						
Surrogate: 1-Chlorooctadecane	101	% 28-171							

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RTFY 8021R

11/20/2015

12/14/2015

ALLISON CQ FEDERAL #10 NONE GIVEN

Project Number: Project Location:

Project Name:

NOT GIVEN

malka

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

11/19/2015

Soil

Cool & Intact Jodi Henson

Sample ID: S4-3' (H503078-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS				CONTROL STATE OF THE STATE OF T	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	94.9	% 35-147						-	
Surrogate: 1-Chlorooctadecane	102	% 28-171	Ç.						

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Received: Reported: 11/20/2015

12/14/2015

ALLISON CQ FEDERAL #10

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

11/19/2015

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S5-1' (H503078-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS			***		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	93.2	% 35-147	<u> </u>	HIN'SON 1447 3 16 1, 10 141153					
Surrogate: 1-Chlorooctadecane	99.3	% 28-171	ř.						

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Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

12/14/2015

Sampling Type:

Soil

Project Name:

BTEX 8021B

ALLISON CQ FEDERAL #10

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: S5-2' (H503078-14)

DIEXCOLED	mg/	, kg	Allalyze	u by. 143					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.6-140)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP		San Planting Committee of the Committee			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/24/2015	ND.	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	101	% 35-147			7885-00-00-00-00	Minimum Minimu			

Analyzed By: MS

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Reported:

12/14/2015

Project Name: Project Number: ALLISON CQ FEDERAL #10

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Sample Received By:

Sampling Condition:

Soil Cool & Intact

Jodi Henson

Sample ID: S5-3' (H503078-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	
Surrogate: 1-Chlorooctane	92.3	% 35-147							
Surrogate: 1-Chlorooctadecane	102	% 28-171							

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 wahed 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 claims 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.





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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm 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.

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 19 of 19

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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

December 28, 2015

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

FAX

RE: Allison CQ Federal #10 OrderNo.: 1512603

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 15 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 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1512603

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/28/2015

CLIENT: Yates Petroleum Corporation Lab Order: 1512603 Allison CQ Federal #10 Project: Lab ID: 1512603-001 Collection Date: 11/19/2015 8:13:00 AM Client Sample ID: S1-4' Matrix: SOIL Result RL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 10000 750 mg/Kg 500 12/17/2015 12:32:09 PM 22833 Lab ID: 1512603-002 Collection Date: 11/19/2015 8:16:00 AM Client Sample ID: S1-5' Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 6700 300 mg/Kg 200 12/17/2015 12:44:34 PM 22833 Lab ID: 1512603-003 Collection Date: 11/19/2015 8:19:00 AM Client Sample ID: S1-6' Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 3100 150 mg/Kg 100 12/17/2015 1:09:23 PM 22833 Lab ID: 1512603-004 Collection Date: 11/19/2015 8:34:00 AM Client Sample ID: S2-4' Matrix: SOIL RL Qual Units Result **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 2700 150 mg/Kg 100 12/17/2015 2:23:51 PM 22833 Lab ID: Collection Date: 11/19/2015 8:38:00 AM 1512603-005 Client Sample ID: Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 3900 150 100 12/17/2015 2:36:15 PM 22833 mg/Kg

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

- * 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 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1512603

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/28/2015

CLIENT: Yates Petroleum Corporation Lab Order: 1512603 Allison CQ Federal #10 Project: Lab ID: 1512603-006 Collection Date: 11/19/2015 8:42:00 AM Client Sample ID: S2-6' Matrix: SOIL Analyses Result **RL** Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT 6200 Chloride 300 mg/Kg 200 12/17/2015 2:48:40 PM 22833 Lab ID: 1512603-007 Collection Date: 11/19/2015 8:55:00 AM Client Sample ID: S3-4' Matrix: SOIL Result **RL** Qual Units Analyses **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 2200 75 mg/Kg 50 12/17/2015 3:01:05 PM 22833 Lab ID: 1512603-008 Collection Date: 11/19/2015 8:57:00 AM Client Sample ID: S3-5' Matrix: SOIL Result **RL** Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT 100 12/17/2015 3:13:29 PM 22833 Chloride 4800 150 mg/Kg Lab ID: 1512603-009 Collection Date: 11/19/2015 9:01:00 AM Client Sample ID: S3-6' Matrix: SOIL Result RL Qual Units **DF** Date Analyzed Analyses Batch ID **EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 1200 30 mg/Kg 12/16/2015 4:44:07 PM 22833 Lab ID: 1512603-010 Collection Date: 12/4/2015 8:20:00 AM Client Sample ID: S4-4' Matrix: SOIL Result RL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 8200 300 mg/Kg 200 12/17/2015 3:25:54 PM 22833

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

- 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 4
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order: 1512603

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/28/2015

CLIENT: Yates Petroleum Corporation Lab Order: 1512603 Allison CQ Federal #10 Project: Lab ID: 1512603-011 Collection Date: 12/4/2015 8:24:00 AM Client Sample ID: S4-5' Matrix: SOIL Result RL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 9200 750 500 12/17/2015 3:38:19 PM 22833 mg/Kg Lab ID: 1512603-012 Collection Date: 12/4/2015 8:28:00 AM Client Sample ID: S4-6' Matrix: SOIL Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 9300 300 mg/Kg 200 12/17/2015 4:15:33 PM 22840 Lab ID: 1512603-013 Collection Date: 12/4/2015 8:55:00 AM Client Sample ID: S5-4' Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 7700 300 mg/Kg 200 12/17/2015 4:27:57 PM 22840 Lab ID: 1512603-014 Collection Date: 12/4/2015 8:58:00 AM Client Sample ID: S5-5' Matrix: SOIL Result RL Qual Units Analyses **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 8300 750 mg/Kg 500 12/17/2015 4:40:22 PM 22840 Lab ID: 1512603-015 Collection Date: 12/4/2015 9:01:00 AM Client Sample ID: Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 4900 300 mg/Kg 200 12/17/2015 4:52:46 PM 22840

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

- 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 3 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1512603

28-Dec-15

Client:

Yates Petroleum Corporation

Project:

Allison CQ Federal #10

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

1.5

SeqNo: 944921

Units: mg/Kg

Analyte

PQL

%RPD

HighLimit

RPDLimit

Qual

Chloride

ND

Result

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-22833

Batch ID: 22833

RunNo: 30906

Prep Date: 12/16/2015

Analysis Date: 12/16/2015

SeqNo: 944922

Units: mg/Kg

Analyte

PQL

SPK value SPK Ref Val

%REC

LowLimit HighLimit

%RPD

Chloride

Result 14

15.00

92.8

90 110 **RPDLimit**

Qual

SampType: MBLK

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

Sample ID MB-22840

Client ID: PBS

Prep Date: 12/16/2015

Result

Result

14

ND

Batch ID: 22840

1.5

Analysis Date: 12/16/2015

1.5

RunNo: 30906 SeqNo: 944949

Units: mg/Kg

Qual

Analyte Chloride

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Client ID: LCSS

Sample ID LCS-22840 SampType: LCS

Batch ID: 22840

TestCode: EPA Method 300.0: Anions

0

RunNo: 30906 SeqNo: 944950

110

Units: mg/Kg

Analyte Chloride

Prep Date: 12/16/2015

Analysis Date: 12/16/2015 **PQL**

1.5

15.00

SPK value SPK Ref Val

%REC 94.1

LowLimit

HighLimit 90

%RPD

RPDLimit

Qual

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P

RL

Sample pH Not In Range Reporting Detection Limit Page 4 of 4



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: 1512603 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 12/11/2015 9:40:00 AM Completed By: 12/14/2015 8:44:58 AM Lindsay Mangin 12/14/15 Reviewed By: Chain of Custody 1. Custody seals intact on sample bottles? Yes 🕏 No 🗌 Not Present 2. Is Chain of Custody complete? No 🗆 Yes Not Present 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? No 🗌 NA Yes 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗆 NA 🗌 6. Sample(s) in proper container(s)? No 🗌 Yes 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? No 9. Was preservative added to bottles? Yes 🗌 No 🍻 NA 🗌 10.VOA vials have zero headspace? No VOA Vials Yes No 🗌 11. Were any sample containers received broken? No 🍻 Yes # of preserved bottles checked 12. Does paperwork match bottle labels? for pH: No | Yes (Note discrepancies on chain of custody) (<2 or >12 unless noted) 13, Are matrices correctly identified on Chain of Custody? Adjusted? No 🗌 14. Is it clear what analyses were requested? No 🗌 15. Were all holding times able to be met? No 🗌 Yes Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No 🗌 NA M 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 2.3 Good Yes

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,		Allison CQ Federal #10	ederal #10		4901	-lawki	4901 Hawkins NE -		ndnerc	de, N	Albuquerque, NM 87109	60	
05 South 4th Street Artesia, NM 88210	Project #:		200	:	Tel	05-34	Tel. 505-345-3975		Fax 50	5-34	505-345-4107		ŕ
575-703-6537		30-015-26195	26195					Analy		due	1	:	
csettle@yatespetroleum.com	Project Manager.	iger:							([†] (<u> </u>			
☐ Level 4 (Full Validation)		Chase Settle PO # 205, 0750	e 7750							·:			
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Matrix Sample Request ID	Container Type and #	Preservative Type		BTEX + MTB	PH Method PH Method	PH (Method	DO (Method 310 (PNA or	CRA 8 Meta	nions (F, CI, 1 180 Pesticid	(AOV) 8082	V-imə2) 072	V.	
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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

OrderNo.: 1601861

February 02, 2016

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

FAX

RE: Allison CQ Federal #10

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/22/2016 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 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 1601861

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/2/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1601861 Project: Allison CQ Federal #10 1601861-001 Lab ID: Collection Date: 1/19/2016 8:14:00 AM Client Sample ID: S1-7' Matrix: SOIL Result **PQL Qual Units DF** Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT 4300 150 100 1/27/2016 4:44:43 PM 23417 Chloride mg/Kg Lab ID: 1601861-002 Collection Date: 1/19/2016 8:28:00 AM Client Sample ID: S1-9' Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 930 30 mg/Kg 1/26/2016 2:07:59 PM 23417 Lab ID: 1601861-003 Collection Date: 1/19/2016 8:30:00 AM Client Sample ID: S1-11' Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 670 30 mg/Kg 20 1/26/2016 2:20:24 PM 23417 Lab ID: 1601861-004 Collection Date: 1/19/2016 8:41:00 AM Client Sample ID: S1-13' Matrix: SOIL Result **PQL Qual Units DF** Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 220 30 mg/Kg 1/26/2016 2:32:49 PM 23417 Lab ID: 1601861-005 Collection Date: 1/19/2016 9:23:00 AM Client Sample ID: S2-7' Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1700 75 mg/Kg 1/27/2016 4:57:08 PM 23417

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

- 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 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1601861

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/2/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1601861 Project: Allison CQ Federal #10 Lab ID: 1601861-006 Collection Date: 1/19/2016 9:34:00 AM Client Sample ID: S2-9' Matrix: SOIL Result **PQL Qual Units** DF Date Analyzed Analyses Batch ID **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 120 30 mg/Kg 1/26/2016 2:57:38 PM 23417 Lab ID: 1601861-007 Collection Date: 1/19/2016 9:56:00 AM Client Sample ID: S2-11' Matrix: SOIL Analyses Result PQL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 120 30 mg/Kg 1/26/2016 3:10:02 PM 23417 Lab ID: 1601861-008 Collection Date: 1/19/2016 10:15:00 AM Client Sample ID: S2-13' Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 74 30 20 1/26/2016 3:22:27 PM 23417 mg/Kg Lab ID: 1601861-009 Collection Date: 1/19/2016 10:27:00 AM Client Sample ID: S3-7' Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 5600 300 mg/Kg 200 1/27/2016 5:09:32 PM 23417 Lab ID: Collection Date: 1/19/2016 10:34:00 AM 1601861-010 Client Sample ID: Matrix: SOIL Analyses Result PQL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1500 75 mg/Kg 1/27/2016 5:46:46 PM 23417

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

- 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 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1601861

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/2/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1601861 Allison CQ Federal #10 Project: Lab ID: 1601861-011 Collection Date: 1/19/2016 10:41:00 AM Client Sample ID: S3-11' Matrix: SOIL PQL Qual Units Analyses Result **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1200 30 mg/Kg 20 1/26/2016 4:24:28 PM 23417 Lab ID: 1601861-012 Collection Date: 1/19/2016 10:48:00 AM Client Sample ID: S3-13' Matrix: SOIL Result **PQL Qual Units DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1800 75 mg/Kg 1/27/2016 5:59:11 PM 23417 1601861-013 Lab ID: Collection Date: 1/19/2016 11:08:00 AM Client Sample ID: S4-7' Matrix: SOIL Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 8500 750 mg/Kg 500 1/28/2016 1:38:26 PM 23436 Lab ID: 1601861-014 Collection Date: 1/19/2016 11:15:00 AM S4-9' Client Sample ID: Matrix: SOIL Result PQL Qual Units Analyses **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 2600 150 mg/Kg 100 1/28/2016 1:50:51 PM 23436 Lab ID: 1601861-015 Collection Date: 1/19/2016 11:23:00 AM Client Sample ID: S4-11' Matrix: SOIL Result **PQL Qual Units DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 1000 30 mg/Kg 1/27/2016 3:30:16 PM 23436

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

- 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 3 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1601861

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/2/2016

	Yates Petroleum Corpor Allison CQ Federal #10		Therefore security was a second and the second and	L	ab Order:	160186	
Lab ID: Client Sample ID:	1601861-016 S4-13'	May the first state the local and the same three three the		Collection Date: Matrix:		1:34:00 AN	1
Analyses		Result	PQL Qual	Units	DF Date An	alyzed	Batch ID
EPA METHOD 300	.0: ANIONS				No.	Analy	st: LGT
Chloride		230	30	mg/Kg	20 1/27/201	6 3:42:40 PM	A 23436
Lab ID:	1601861-017			Collection Date:	: 1/19/2016 1	2:05:00 PM	ſ
Client Sample ID:	S5-7'			Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ar	alyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Analy	st: LGT
Chloride		640	30	mg/Kg	20 1/27/201	6 3:55:05 PM	A 23436
Lab ID:	1601861-018			Collection Date:	: 1/19/2016 1	2:12:00 PM	1
Client Sample ID:	S5-9'			Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ar	alyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Analy	st: LGT
Chloride		1100	30	mg/Kg	20 1/27/201	6 4:07:30 PI	M 23436
Lab ID:	1601861-019			Collection Date	: 1/19/2016 1	2:19:00 PN	1
Client Sample ID:	S5-11'			Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date Ar	ıalyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Analy	st: LGT
Chloride		1200	30	mg/Kg	20 1/27/201	6 4:19:54 PI	M 23436
Lab ID:	1601861-020			Collection Date	: 1/19/2016 1	2:28:00 PN	1
Client Sample ID:	S5-13 ¹			Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Analy	/st: LGT
Chloride		81	30	mg/Kg	20 1/27/20	16 4:32:19 PI	M 23436

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

- * 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 4 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601861

02-Feb-16

Client:

Yates Petroleum Corporation

Project:

Allison CQ Federal #10

Sample ID MB-23417

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23417

RunNo: 31710

Prep Date:

1/26/2016

Analysis Date: 1/26/2016

SeqNo: 970391

Units: mg/Kg

Analyte

Result **PQL**

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit**

Qual

Chloride

ND 1.5

SampType: LCS

SeqNo: 970392

TestCode: EPA Method 300.0: Anions

HighLimit

Sample ID LCS-23417

Prep Date: 1/26/2016

Client ID: LCSS

Batch ID: 23417

RunNo: 31710

Units: mg/Kg

Analyte Chloride

Client ID:

Analysis Date: 1/26/2016 **PQL**

SPK value SPK Ref Val 15.00

%REC LowLimit 95.2

HighLimit 110

%RPD

RPDLimit Qual

Sample ID MB-23436

PBS

Prep Date: 1/27/2016

Sample ID LCS-23436

LCSS

Result

14

SampType: MBLK

Batch ID: 23436

Analysis Date: 1/27/2016

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 31736

Units: mg/Kg

Result PQL ND

SeqNo: 971237

%RPD

Analyte

1.5

SPK value SPK Ref Val %REC LowLimit

RunNo: 31736

HighLimit

RPDLimit

Qual

Chloride

Client ID:

TestCode: EPA Method 300.0: Anions

SampType: LCS

Result

15

Batch ID: 23436

SeqNo: 971238

Units: mg/Kg

%RPD

RPDLimit

Qual

Analyte

Prep Date: 1/27/2016

Analysis Date: 1/27/2016

%REC

LowLimit HighLimit

Chloride

PQL SPK value SPK Ref Val 1.5

15.00

97.5

90

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded H

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

J Analyte detected below quantitation limits Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-315-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1601861 RoptNo: 1 Client Name: Yates Petroleum Corpora Received by/date 1/22/2016 9:40:00 AM Logged By: Lindsay Mangin Completed By Lindsay Mangin 1/22/2016 11:03:54 AM Reviewed By: Chain of Custody Not Present 1 Custody seals intact on sample bottles? Not Present No 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No ... NA 🗌 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C NA No Yes V No 🗌 6. Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? NA No V 9. Was preservative added to bottles? Yes No No VOA Vials 10.VOA vials have zero headspace? Yes No V Yes 11. Were any sample containers received broken? # of preserved bottles checked No 🗔 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes V 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? Checked by No Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) No Yes NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom. Va: eMail Phone Fax Regarding: Client Instructions 17. Additional remarks: 18. Cooler Information Cooler No Temp "C Condition Seal Intact Seal No Seal Date Signed By 2.0 Good

Sample Request ID S1-7'

Chair	1-of-C	Secord	I um-Around	a me:			I	4		7	Ö	HALL ENVIRONMENTA	Z	<	
Client: Yates Petroleum Corporation	Petroleum	Corporation	X Standard	□ Rush			4	Z	ANALYSIS	S	AB	LABORATORY	ATC	K	
2			Project Name:				>	ww.ha	www.hallenvironmental.com	nemu	<u>al</u> .co	E			
Mailing Address:	is:		વ	Allison CQ Federal #10	leral #10	4901	ławkin	4901 Hawkins NE -	Albuc	nerqu	e, N	Albuquerque, NM 87109	O.		
105 South 4th	Street Art	105 South 4th Street Artesia, NM 88210	Project #:			Tel. 5	05-345	Tel. 505-345-3975	Fa	Fax 505-345-4107	345-4	1107			
Phone #:	575-703-6537	-6537		30-015-26195	195			7	Analysis Request	s Red	nest				
email or Fax#:	csettle@	petroleum.com	Project Manag	nager:		(ʎĮu		-	(0		Moderation in	District of the		more worth to	PANA Security States
QA/QC Package:				Chase Settle		9 S O			5 (W. 10				ndano sentano (n. 15)
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Accreditation:		of manager and fact	Sampler:	Chase Settle		Hd.		Motorcom	ON						(1)
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□ EDD (Type)			Sample Temperature:	erature: Z, (0	38.	ARRIVA NA		THE REAL PROPERTY.			٥Λ٠			A)
Date Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	TM + X3T8 TM + X3T8 cdt9M H9T	TPH (Metho	EDB (Methors)	RCRA 8 Me	D,3) anoinA oitee9 1808	8260B (VO	imo2) 0728	7704(000)	The state of the s	รคldduB זiA
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1/19/2016 11:23a	Soil	\$4-11		NONE	-015			_	×				000/41		
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1/19/2016 12:19p Soil	Soil	\$5-11.		NONE	-019				×						_
1/19/2016 12:28p	Soil	S5-13°	1 - 402.	NONE	-(20			MILITARI SALA	×						_
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Date: Time:	Remoduished by:	.kc pa	Received by:	, J	Time										
if necessar	y, samples sut	If necessary, samples submitted to Hall Environmental may be subcontracted to other		redited laboratones	accredited laboratones. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	possibility. Any s	up-contra	cted data	will be de	arty notal	es on th	ic analytic	al report.		



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

OrderNo.: 1602542

February 23, 2016

Chase Settle
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Allison CQ Federal #10

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/12/2016 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 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 Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1602542

Date Reported: 2/23/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

1602542-001

Project:

Lab ID:

Allison CQ Federal #10

Matrix: SOIL

Client Sample ID: S3-15'

Collection Date: 2/9/2016 8:51:00 AM Received Date: 2/12/2016 9:35:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 3600
 150
 mg/Kg
 100 2/19/2016 9:21:21 PM
 23798

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

- * 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 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1602542

Date Reported: 2/23/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Allison CQ Federal #10

Lab ID: 1602542-002

Client Sample ID: S3-17'

Collection Date: 2/9/2016 8:57:00 AM

Matrix: SOIL Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	700	30	mg/Kg	20	2/17/2016 2:32:05 PM	M 23798

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

- 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 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1602542

Date Reported: 2/23/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Allison CQ Federal #10

1602542-003

Lab ID:

Matrix: SOIL

Client Sample ID: S3-19'

Collection Date: 2/9/2016 9:05:00 AM Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: LGT
Chloride	ND	30	mg/Kg	20	2/17/2016 2:44:29 PI	M 23798

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

- 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 3 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602542

23-Feb-16

Client:

Yates Petroleum Corporation

Project:

Allison CQ Federal #10

Sample ID MB-23798

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23798

PQL

1.5

RunNo: 32237

Prep Date: 2/17/2016

Sample ID LCS-23798

Analysis Date: 2/17/2016

SPK value SPK Ref Val %REC LowLimit

SeqNo: 985576

Units: mg/Kg

HighLimit

%RPD **RPDLimit** Qual

Analyte Chloride

ND

SampType: LCS

Batch ID: 23798

PQL

TestCode: EPA Method 300.0: Anions

RunNo: 32237

Prep Date: 2/17/2016

Client ID: LCSS

Analysis Date: 2/17/2016

SeqNo: 985577

Units: mg/Kg

Analyte

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD

15.00

Chloride

90

110

RPDLimit

1.5

0

95.6

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 4

P Sample pH Not In Range Reporting Detection Limit RL

Sample container temperature is out of limit as specified

H Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

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:	1602542		RcptNo:	1 .
Received by/dates A 02/12/10				
Logged By: Ashley Gallegos 2/12/2016 9:35:00 AM		A		
Completed By: Ashley Gallegos 2/12/2016 10:49:21 AM	Í	A		
Reviewed By: 50 02/12/16		O		25
Chain of Custody	- 10.50 m.l		***	
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 \square	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No ☑	- TO TOA TRIS E	
11.	100		# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	for pH:	
(Note discrepancies on chain of custody)	Yes 🗸	No 🗔	(<2 o Adjusted?	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?14. Is it clear what analyses were requested?	Yes ✓ Yes ✓	No 🗆		
15. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)			***	
Openial Handling of annillants				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No U	NA 🗹	1
Person Notified: Date				
By Whom: Via: [eMail	Phone Fax	In Person	
Regarding: Client Instructions:				
17. Additional remarks:		, , , , , , , , , , , , , , , , , , ,		
18. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal No Seal Intact Seal Intact Seal No Seal Intact Seal Intact Seal No Seal No Seal Intact Seal No Seal Intact Seal No Seal No Seal No Seal No Seal No Seal Intact Seal No	Seal Date	Signed By		
1 1.0 Good Yes			8	

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 + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 418.1) RCRA 8 Metals RCRA 8 Metals ROB1 Pesticides / 8082 PCB's 8081 Pesticides / 8082 PCB's 8250 (Semi-VOA) Air Bubbles (Y or N)	
Mailing Address: Mailing Address: Mailing Address: Mailing Address: Allison CQ Federal #10 Phone #: 575-703-6537 email or Fax#: csettle@yatespetroleum.com Project Manager:	it ID	

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				Project Name:					3	ww.ha	www.hallenvironmental.com	onmer	ıtal.c	Æ				
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mail or Fax#:	Fax#:	csettle@	spetroleum.com	Project Manager:	ger:										· · · · · · · · · · · · · · · · · · ·			
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J EDD (Ty	EDD (Type)			Sample-Temperature	erature /,-()						etala			-ΛΟ			^/.	119
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO HDOASTA	FTEX + MT	orbeM HqT	TPH (Meth	AN9) 0158	RCRA 8 Ma	7,7) enoinA S081 Pestic	OV) 80928	me 2) 0 728			soldding aiv	Air Bubbles
2/9/2016 8:51a	8:51a	Soil	S3-15'	1 - 4oz.	NONE	· 00/				_	×							
2/9/2016 8:57a	8:57a	Soil	\$3-17	1 - 4oz.	NONE	-003					×	_			-	_		- 1
2/2016 9:05a	9:05a	Soil	\$3-19,	1 - 4oz.	NONE	-003					×				_	_	1	- 1
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