MARTIN YATES, III 1912-1985 FRANK W. YATES 1936-1986

S.P YATES

1914-2008



JOHN A. YATES

JOHN A. YATES JR.

DOUGLAS E. BROOKS
PRESIDENT
CHIEF EXECUTIVE OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

February 4, 2016

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

Re:

Tackitt AOT #2

30-015-28003

Section 28, T19S-R25E 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 November 17, 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 February 20, 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

Tackitt AOT #2 Work Plan

Section 28, T19S-R25E

Eddy County, New Mexico

February 4, 2016

2RP-3406

I. Location

Take HWY 285 south of Artesia for 13 miles, then turn west on Rocking R Red Road and go 5.3 miles before turning south for 1.7 miles, the location is to ¼ mile to the east.

II. Background

On November 17, 2015, Yates submitted to the NMOCD District II office a Form C-141 for the release of 6 B/O & 6 B/PW with 5 B/O & 5 B/PW recovered. The affected area is approximately 160 feet by 30 feet running west to east on the location pad. Initial delineation samples were taken (11/19/2015) and sent to a NMOCD approved laboratory (11/30/2015 & 12/18/2015, results enclosed). Further sampling was conducted in the S2 release area (01/12/2016) and sent to a NMOCD approved laboratory (01/21/2016. results enclosed).

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 28, T19S-R25E) that depth to groundwater is approximately 110' 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'

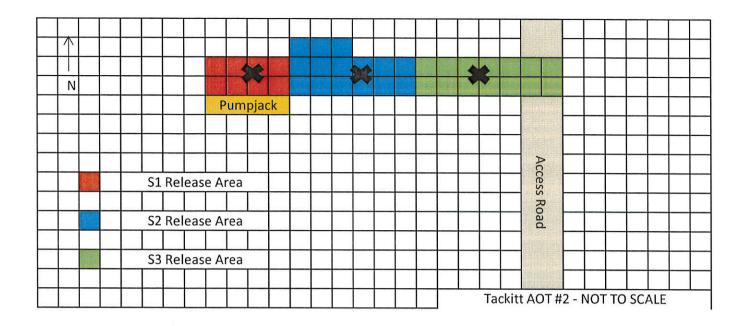
Distance to surface water body > 1000'

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.

٧. Scope of Work

Based on enclosed analytical results, the depth to groundwater (110'), and a decrease in TPH, BTEX, and chlorides, Yates Petroleum Corporation proposes to excavate two (2) feet in the S2 area with all excavated soil being disposed of at a NMOCD approved facility. The S2 area will then be backfilled with 2 feet of caliche. Yates will also excavate one (1) foot in the S1 release area. This excavated material will then be placed on a lined, bermed area in approximately a 6 to 8 inch lift. The stockpiled material will then be treated with 3% MicroBlaze and mixed using the bucket of a backhoe. Treatment will not begin until May 1, 2016 at the earliest, once ambient temperatures have reached a consistent high level required for the biodegradation of TPH and BTEX. After 30 days of MicroBlaze treatment, a 13% Nitrogen, 13% Phosphorus, and 13% Potassium fertilizer will be blended into the stockpiled material using a backhoe and watered. After 60 days of treatment, another application of MicroBlaze or fertilizer will be applied and the material mixed again using the bucket of a backhoe. The stockpiled material will be sampled after 90 days of treatment with the soil being analyzed for TPH and BTEX. If the TPH and BTEX are within the RRAL's (TPH-5000 ppm and BTEX-50 ppm) for the Total Ranking Score of zero (0), a C-141, Final Report will be submitted to the NMOCD requesting closure of the site. If the TPH and BTEX analysis is not below the RRAL for site ranking zero (0), the previously mentioned protocol will be repeated. Once stockpiled soils have tested below the RRAL for TPH and BTEX for a site ranking zero (0), the excavation will be backfilled with the remediated soil. When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.



Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	H503080	11/19/2015	Backhoe	1'	274	1800	2810	48
S1-2'	H503080	11/19/2015	Backhoe	2'	1.38	<10.0	<10.0	<16.0
S2-1'	H503080	11/19/2015	Backhoe	1'	0.909	<10.0	34.1	7680
S2-2'	H503080	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	2520
S2-3'	1512244	11/19/2015	Backhoe	3'	N/A	N/A	N/A	330
S2-4'	1512244	11/19/2015	Backhoe	4'	N/A	N/A	N/A	1700
S2-5'	1601538	1/21/2016	Backhoe	5'	N/A	N/A	N/A	ND
S2-6'	1601538	1/21/2016	Backhoe	6'	N/A	N/A	N/A	ND
S2-7'	1601538	1/21/2016	Backhoe	7'	N/A	N/A	N/A	ND
S2-8'	1601538	1/21/2016	Backhoe	8'	N/A	N/A	N/A	ND
S2-9'	1601538	1/21/2016	Backhoe	9'	N/A	N/A	N/A	ND
S2-10'	1601538	1/21/2016	Backhoe	10'	N/A	N/A	N/A	ND
S2-11'	1601538	1/21/2016	Backhoe	11'	N/A	N/A	N/A	ND
S2-12'	1601538	1/21/2016	Backhoe	12'	N/A	N/A	N/A	ND
S2-13'	1601538	1/21/2016	Backhoe	13'	N/A	N/A	N/A	ND
S3-1'	H503080	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	<16.0
S3-2'	H503080	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	<16.0

Site Ranking is Zero (0). >100' (110', Section 28, T19S-R25E, Trend Map)
All results are ppm (chloride for documentation).

Released: 6 B/O & 6 B/PW; Recovered: 5 B/O & 5 B/PW Release Date: 11/04/2015



November 30, 2015

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street

RE: TACKITT AOT #2

Artesia, NM 88210

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:

11/30/2015

Sampling Type:

Soil

Project Name:

TACKITT AOT #2

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NOT GIVEN

mg/kg

Reporting Limit

10.0

Result

1800

Sample Received By:

Jodi Henson

Sample ID: S1-1' (H503080-01)

Sample ID: ST-I (US03000-01)	,								
BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	22.9	2.00	11/25/2015	ND	2.01	101	2.00	8.60	
Toluene*	107	2.00	11/25/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	58.4	2.00	11/25/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	85.7	6.00	11/25/2015	ND	6.39	106	6.00	15.5	
Total BTEX	274	12.0	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	104	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2015	ND	432	108	400	0.00	

Analyzed By: MS

Method Blank

ND

ND

BS

195

183

% Recovery

97.3

91.6

True Value QC

200

200

Analyzed

11/24/2015

11/24/2015

DRO >C10-C28	2810	10.0
Surrogate: 1-Chlorooctane	173 %	35-147
Surrogate: 1-Chlorooctadecane	138 %	28-171

Cardinal Laboratories

TPH 8015M

GRO C6-C10

Analyte

*=Accredited Analyte

S-04

Qualifier

RPD

1.57

4.83

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Celay theeno.

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

Reported:

11/30/2015

Project Name: Project Number: TACKITT AOT #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S1-2' (H503080-02)

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	11/25/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/25/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	1.38	0.150	11/25/2015	ND	6.39	106	6.00	15.5	
Total BTEX	1.38	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	124	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	<10.0	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	88.7	% 35-147	7	SACRATURE STUDIO CARRELINO SACRA		***************************************			
Surrogate: 1-Chlorooctadecane	95.5	% 28-171	!						

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*=Accredited Analyte

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Celey D. Krene



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

Fax To:

Received:

11/20/2015

Reported:

BTEX 8021B

11/30/2015 TACKITT AOT #2

mg/kg

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2-1' (H503080-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	0.236	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	0.256	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	0.417	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	0.909	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 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	7680	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

ND

ND

189

183

94.6

91.7

200

200

3.05

2.06

Analyzed By: MS

Surrogate: 1-Chlorooctane

100 %

<10.0

34.1

35-147

11/23/2015

11/23/2015

10.0

10.0

Surrogate: 1-Chlorooctadecane

GRO C6-C10

DRO >C10-C28

109 %

28-171

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Celeg & treene

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:

11/30/2015

Sampling Type:

Soil

Project Name:

TACKITT AOT #2

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S2-2' (H503080-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS				gr. language and 1000 care	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	<0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	<0.050	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	< 0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 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	2520	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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	<10.0	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	97.8	% 35-147	•						
Surrogate: 1-Chlorooctadecane	106	% 28-171							

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Celey D. Frene



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

Fax To:

(505) 748-4635

Received:

11/20/2015

Reported:

11/30/2015

Project Name:

TACKITT AOT #2

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

11/19/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3-1' (H503080-05)

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	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	<0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	< 0.050	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 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	<16.0	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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	<10.0	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	97.6	% 35-147	7					-	870 SH , 100 M 110 M
Surrogate: 1-Chlorooctadecane	105 9	6 28-171	1						

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Celly theme-



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

Received:

11/20/2015

Sampling Date:

11/19/2015

Reported:

11/30/2015

Sampling Type:

Soil

Project Name:

TACKITT AOT #2

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample ID: S3-2' (H503080-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					XIII X
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	<0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	<0.050	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	6 73.6-14	0		30116912111 ¹ 2				ADVOCATION CONTRACTOR
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP				The state of the s	AUGUSTA STATE OF THE STATE OF T
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	<10.0	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	99.4	% 35-147	7						
Surrogate: 1-Chlorooctadecane	107	% 28-171							

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*=Accredited Analyte

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Celeg & trens-



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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	shed by:	shed by:		Special instructions:					S3-2'	S3-1'	S2-2'	\$2-1	21-2		61-1	FIELD CODE	# 1505000		Campic Ognoco	Sampler Signature		City/State/Zip: Artesia	Company Address: 105 So	Compt (505) 393-232t Yates Hetroleum Colporation	Floject Manager.	Color Manager Chase	ARDINAL LABORATORIES	,
	Date	//-20-15 Date	Date													ĬĬ	00	5		1	575-748-4171	Artesia, NM 88210	105 South 4th Street	Petroleum Corporation	Como Camporation	Sottle	ORIES	
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	Temperature Upon Receipt:	Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Labels on container(s) Custody seals on container(s)	VOCs Free of Headspace?	Laboratory Comments:											Anions (CI, SO4, Alkalinity)		101	TCLP:	1	x Standard	PO #: 205. 0/50	3				A	į
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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 18, 2015

Chase Settle Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

TEL: (575) 748-4217

FAX

RE: Tackitt AOT #2

OrderNo.: 1512244

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/4/2015 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

Analytical Report

Lab Order: 1512244

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/18/2015

CLIENT:

Yates Petroleum Corporation

Lab Order:

1512244

Project:

Tackitt AOT #2

Lab ID:

1512244-001

Collection Date: 11/19/2015 1:22:00 PM

Client Sample ID: S2-3'

Result

Matrix: SOIL

RL Qual Units

DF Date Analyzed

Batch ID

Analyst: LGT

EPA METHOD 300.0: ANIONS

Chloride

Chloride

330

RL Qual Units

30

mg/Kg

12/10/2015 5:52:49 AM 22726

Lab ID:

Analyses

1512244-002

Collection Date: 11/19/2015 1:26:00 PM

Matrix: SOIL

DF Date Analyzed

Batch ID

Analyses EPA METHOD 300.0: ANIONS

Client Sample ID: S2-4'

1700

Result

75

mg/Kg

Analyst: LGT 50 12/12/2015 2:43:21 AM 22726

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits

Page 1 of 2

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1512244

18-Dec-15

Client:

Yates Petroleum Corporation

Project:

Tackitt AOT #2

Sample ID MB-22726

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 22726

RunNo: 30760

SPK value SPK Ref Val %REC LowLimit

Prep Date: 12/9/2015

Sample ID LCS-22726

LCSS

Analysis Date: 12/9/2015

SeqNo: 939587

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

PQL Result ND 1.5

TestCode: EPA Method 300.0: Anions

%RPD

Client ID:

Prep Date:

SampType: LCS

Analysis Date: 12/9/2015

Batch ID: 22726

RunNo: 30760 SeqNo: 939588

Units: mg/Kg

Qual

Analyte

12/9/2015

Result

SPK value SPK Ref Val PQL

15.00

94.1

%RPD

1.5

%REC

110

RPDLimit

Chloride

14

HighLimit

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

RPD outside accepted recovery limits R

В

Analyte detected in the associated Method Blank

E Value above quantitation range

J P

Sample pH Not In Range RL Reporting Detection Limit

Analyte detected below quantitation limits Page 2 of 2



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:	1512244		ReptN	o: 1
Received by/dat	e LM	12/04/15				
Logged By:	Celina Sessa	12/4/2015 9:20:00 AM		alin Sr	n.	
Completed By	Celina Sessa	12/4/2015 4:20:57 PM		alin Si	36~	
Reviewed By	Q _A	12/07/15		. ,.		
Chain of Cus	tody	1-101/12	1	1 she		
American Company of the Company of t	als intact on sample bottles?		Yes M	No 🗆	-Not-Present	mar
	Custody complete?		Yes 🗸 🕓	No 🗔	Not Present	
3. How was the	sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the sample:	3?	Yes 🗸	No 🗆	NA	
5 Were all sar	mples received at a temperatur	re of >0° C to 6.0°C	Yes 🔽	No	NA [
6. Sample(s)	n proper container(s)?		Yes 🔽	No 🗌		
7. Sufficient sa	ample volume for indicated test	l(s)?	Yes 🗸	No 🗌		
8. Are sample:	s (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗔		
9. Was presen	vative added to bottles?		Yes	No 🗸	NA .	
10. VOA vials h	ave zero headspace?		Yes 🗌	No 🗆	No VOA V als	
11, Were any s	ample containers received bro	ken?	Yes	No 🗸	# of preserved	
	work match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH	<2 or >12 unless noted)
500	epancies on chain of custody) is correctly identified on Chain	of Custody?	Yes 🗸	No 🗀	Adjusted?	
1000000	hat analyses were requested?	or obstudy:	Yes 🗸	No 🗌		
15. Were all ho	ilding times able to be met? customer for authorization.)		Yes 🔽	No 🗌	Checked b	y:
Special Han	dling (if applicable)					
16. Was client	notified of all discrepancies wil	th this order?	Yes 🗌	Na 🗆	NA.	y i
Pers	on Notified:	Date	alonerates — presonatoro entretta best	Marcos Care-States Property Services Marcos Services		
Ву W	hom:	Via:	eMai []	Phone E Fax	In Person	
Rega	arding	and and the second seco	Salan, gargini ar populari (adestruogine) conglicari de malancementa a			ore .
Cien	It Instructions:	Trade (2014 18 Sprint 18 cm of Area and	M-10/1 (Mars 4.4) (Mars 404 6 ann ann ann an Angaige I (M. 16 ann an	CONTRACTOR OF THE PROPERTY OF		
17. Additional	remarks:					
18. Cooler In Cooler 1	No Temp °C Condition	Seal Intact Seal No Yes	Seal Date	Signed By		

HALL ENVIRONMENTAL	ANALYSIS LABORATORY		90		A STATE OF THE PARTY OF THE PAR		MEMORY -			W			əldduð nA					AND THE RESERVE AND THE RESERV	30000							
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Chain-of-Custody Record				Check Mile Coopen		537	csettle@yatespetroleum.com		☐ Level 4 (Full Validation)				Sample Request ID	\$2-3	S2.4"										Jap P	d by:
of-Cus	Yates Petroleum Corporation			4000	100 SOUTH 4th Street, Artesia, Nim	575-703-6537	csettle@ya		1.1		□ Other		Matrix	· G	, C			and the second	омиченный при	division mark					Relinquismed by	Relincuished by:
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S	Client:		Mailing	0	100 001	Phone #	email or Fax#;	QA/QC Package:	□ Standard	Accreditation	D NELAP	☐ EDD (Type)	Date	W.0.202	1-19-20.5										Date:	Date:



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

January 21, 2016

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

FAX

RE: Tackitt AOT #2

OrderNo.: 1601538

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/15/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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

Analytical Report

Lab Order: 1601538

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/21/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1601538 Project: Tackitt AOT #2 1601538-001 Lab ID: Collection Date: 1/12/2016 11:17:00 AM Client Sample ID: S2-5' Matrix: SOIL Analyses Result **RL** Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride ND 30 mg/Kg 1/15/2016 11:08:01 PM 23246 Lab ID: 1601538-002 Collection Date: 1/12/2016 11:21:00 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 Chloride ND 30 mg/Kg 1/15/2016 11:20:26 PM 23246 Lab ID: 1601538-003 Collection Date: 1/12/2016 11:28:00 AM Client Sample ID: S2-7' Matrix: SOIL Result RL Qual Units Analyses **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 mg/Kg 1/18/2016 11:38:37 AM 23267 Lab ID: 1601538-004 Collection Date: 1/12/2016 11:33:00 AM Client Sample ID: S2-8' Matrix: SOIL Analyses Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 mg/Kg 1/18/2016 12:15:51 PM 23267 Lab ID: 1601538-005 Collection Date: 1/12/2016 11:43:00 AM Client Sample ID: Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed Batch ID **EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 1/18/2016 12:28:15 PM 23267 mg/Kg

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order: 1601538

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/21/2016

CLIENT: Yates Petroleum Corporation Lab Order: 1601538 Tackitt AOT #2 Project: Lab ID: 1601538-006 Collection Date: 1/12/2016 11:50:00 AM Client Sample ID: S2-10' Matrix: SOIL Result RL Qual Units Analyses DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 mg/Kg 1/18/2016 1:05:29 PM 23267 Lab ID: 1601538-007 Collection Date: 1/12/2016 12:01:00 PM Client Sample ID: S2-11' Matrix: SOIL Result RL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 mg/Kg 1/18/2016 1:17:53 PM 23267 Lab ID: 1601538-008 Collection Date: 1/12/2016 12:13:00 PM Client Sample ID: S2-12' Matrix: SOIL Result RL Qual Units **DF** Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 mg/Kg 1/18/2016 1:30:18 PM 23267 Lab ID: 1601538-009 Collection Date: 1/12/2016 12:30:00 PM Client Sample ID: S2-13' Matrix: SOIL **Analyses** Result RL Qual Units **DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: SRM Chloride ND 30 mg/Kg 1/18/2016 1:42:42 PM 23267

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Page 2 of 3

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601538

21-Jan-16

Client:

Yates Petroleum Corporation

Project:

Tackitt AOT #2

Sample ID MB-23246	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 23246	RunNo: 31499		
Prep Date: 1/15/2016	Analysis Date: 1/15/2016	SeqNo: 963930	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-23246	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-23246 Client ID: LCSS	SampType: LCS Batch ID: 23246	TestCode: EPA Method RunNo: 31499	300.0: Anions	
North Attention of Englished	Maries to air Total Control Control		300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: 23246 Analysis Date: 1/15/2016	RunNo: 31499		RPDLimit Qual

Sample ID MB-23267	SampT	ype: m k	olk	Test	Code: E	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	ID: 23	267	R	lunNo: 3	1522				
Prep Date: 1/18/2016	Analysis D	ate: 1/	18/2016	S	eqNo: 9	64790	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID LCS-23267 Client ID: LCSS	50 11 340 1	ype: lcs i ID: 23		A.F.E	RunNo: 3		300.0: Anion	3		
Prep Date: 1/18/2016	Analysis D	1000000	W-154.55		SeqNo: 9		Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Sample ID MB-23246	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	ID: 23	246	F	RunNo: :	31577				
Prep Date: 1/15/2016	Analysis D	ate: 1/	21/2016	8	SeqNo: \$	966657	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID LCS-23246	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	ID: 23	246	F	RunNo: 3	1577				
Prep Date: 1/15/2016	Analysis D	ate: 1/	21/2016	8	SeqNo: 9	66659	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	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

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Yates Petroleum Corpora	Work Order Number:	16015	38		ReptNo	1
Received by/date	· SA	alistic					
Logged By:	Lindsay Mangin	1/15/2016 9 50:00 AM			Juney Honge		
Completed By	Lindsay Mangin	1/15/2016 10:26:46 AM			Judy Harge		
Reviewed By:	m5	61/15/14					
Chain of Cus	tody O	1, "					
1 Custody sea	ils intact on sample bottles?		Yes	V	No 🗍	Not Present	
2. Is Chain of C	Custody complete?		Yes	v	No 🗔	Not Present	
3. How was the	sample delivered?		Cour	ier			
Log In							
4. Was an atte	empt made to cool the sample	3?	Yes	~	No 🗔	NA [
5. Were all sar	mples received at a temperati	ле of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
6 Sample(s) i	n proper container(s)?		Yes	~	No 🗔		
7 Sufficient sa	ample volume for indicated tes	st(s)?	Yes	V	No 🗌		
8. Are samples	s (except VOA and ONG) prop	perly preserved?	Yes	~	No 🗌		
9. Was presen	vative added to bettles?		Yes		No 🗸	NA L	and the same of th
10. VOA vials h	ave zero headspace?		Yes	parenty	No 🗌	No VOA Vials	2
11, Were any s	ample containers received br	oken?	Yes		No 🗹	# of preserved bottles checked	
12. Does paper	work match bottle labels?		Yes	~	No 🗔	for pH:	
(Note discre	epancies on chain of custody)			proving .	p=	Adjusted?	2 or >12 unless noted)
	s correctly identified on Chain		Yes		No 🗔	Adjusted :	
5.50	hat analyses were requested?	1	Yes	4000	No 🗔	Checked by	r.
	Iding times able to be met? customer for authorization.)		Yes	~	No 🗔	Checked by	
0	allian de anaticable						
	dling (if applicable)			1-3		["	2018
	notified of all discrepancies w	Lacetta intent turbuit industriescoli	Yes	L	No 🗔	NA S	veri
	on Notified:	Date	picarj	******		(1.2	
By W	granden meteorinale stronger instruktional einstelle stronger instruktional einstruktional einst	Via:	cM	all []	Phone Fax	In Person	
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17. Additional	t Instructions:						
18. Cooler Int Cooler I	a diplanta para la	Seal Intact Seal No Yes	Seal E	ate	Signed By		

Street Artesia, NM 88210 Project Name: Street Artesia, NM 88210 Project Manager: Chase Settle	Tacktit AOT #2 Tack	Chain	-of-CL	Record	urn-Around me:	me:				HA	<u> </u>	N	IRO	Z	HALL ENVIRONMENTAL	AL	
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28 Soil S2-7" 1-402. NONE -003		11:2	1 Soil	.82-6		NONE	-85					×			Leader Section 1		T
33 Soil S2-8' 1-402. NONE		11:2	Soil	\$2-7		NONE	-603	**************************************				×					T
Soil S2-9' 1-40z, NONE -005		11:3	3 Soil	\$22-8		NONE	8		nosmittasti -			×			####UPace -P		T
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