

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

July 22, 2016

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

OrderNo.: 1607A70

RE: Caravan State Unit 7H

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/21/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1607A70 Data Papartad: 7/22/2016

Hall Environmental Analys	is Labora	atory, Inc.		Date Reported: 7/22/2016
CLIENT: Yates Petroleum Corporation		(lient San	nple ID: McCloy Top Soil
Project: Caravan State Unit 7H			Collectio	n Date: 7/19/2016 10:00:00 AM
Lab ID: 1607A70-001	Matrix:	MEOH (SOIL)	Receive	d Date: 7/21/2016 9:55:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: LGT
Chloride	270	30	mg/Kg	20 7/22/2016 11:16:58 AM 26545

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

Qualifie	ers: *	Value exceeds Maximum Contaminant Level.	В	Ar
	D	Sample Diluted Due to Matrix	Е	Va
	Н	Holding times for preparation or analysis exceeded	J	Ar
	ND	Not Detected at the Reporting Limit	Р	Sa
	R	RPD outside accepted recovery limits	RL	Re
	S	% Recovery outside of range due to dilution or matrix	W	Sa

- analyte detected in the associated Method Blank
- alue above quantitation range
- analyte detected below quantitation limits Page 1 of 2
- ample pH Not In Range
- Reporting Detection Limit
- ample container temperature is out of limit as specified

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		s Petroleum Corporat van State Unit 7H	ion							
Sample ID	MB-26545	SampType: M	IBLK	Tes	tCode: EPA M	ethod 3	00.0: Anion	S		
Client ID:	PBS	Batch ID: 2	6545	R	RunNo: 35913					
Prep Date:	7/21/2016	Analysis Date: 7	7/22/2016	S	GeqNo: 111188	83 l	Jnits: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5	5							
Sample ID	LCS-26545	SampType: L	CS	Tes	tCode: EPA M	ethod 3	00.0: Anion	S		
Client ID:	LCSS	Batch ID: 2	6545	R	RunNo: 35913					
Prep Date:	7/21/2016	Analysis Date: 7	7/22/2016	S	GeqNo: 111188	84 l	Jnits: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC Low	Limit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	5 15.00	0	96.5	90	110			

Qualifiers:

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

Page 2 of 2

	HALL ENVIRONMENTAL ANALYSIS LABORATORY		TEL:	Environmenta Alt 505-345-397. ebsite: www.h	4901 5 aquerqui 5 FAX: 5	Hawkin , NM 8)5-345-	s NE 7109 4107	Sam	ple Log-In C	heck List
Clie	nt Name: Yates Petrole	um Corpora	Work C	Order Number	r: 1607/	70			RcptNo:	1
Rece	eived by/date:		07/2	1/16			-			
Logg	ed By: Joe Archule	ta	7/21/201	6 9:55:00 AN	1		JEi Dei	let-		
Com	pleted By: Joe Archule	ta	7/21/201	5 10:28:28 A	м		PE	Gt-		
Revi	ewed By:	as	07/2.	116						
Cha	in of Custody		011	/ '						
1. (Custody seals intact on san	nple bottles?			Yes		N	lo 🗌	Not Present 🗹	
2.1	s Chain of Custody comple	ete?			Yes	\checkmark	N	lo 🗆	Not Present	
3. 1	low was the sample delive	red?			Cour	ier				
Log	<u>ı In</u>									
4.	Was an attempt made to c	ool the sample	es?		Yes		١	No 🗌		
5. 1	Were all samples received	at a temperati	ure of >0° C	to 6.0°C	Yes	~	N	o 🗆	NA 🗌	
6.	Sample(s) in proper contain	ner(s)?			Yes		١	No 🗌		
7. 8	Sufficient sample volume fo	or indicated tes	st(s)?		Yes	•	N	io 🗆		
8. /	Are samples (except VOA a	and ONG) prop	perly preserv	ed?	Yes	~		lo 🗆		
9. 1	Was preservative added to	bottles?			Yes		N	io 🗹	NA 🗌	
10.	VOA vials have zero heads	pace?			Yes		N	io 🗆	No VOA Vials 🗹	
11.	Were any sample containe	rs received br	oken?		Yes			No 🔽	# of preserved bottles checked	
	Does paperwork match bot Note discrepancies on cha				Yes		N	10	for pH: (<2	or >12 unless noted)
	Are matrices correctly ident		of Custody?		Yes	~	N	lo 🗆	Adjusted?	
	s it clear what analyses we		1992) - Carlotta Carlotta († 1992) 199		Yes	\checkmark	N	lo 🗌		
	Were all holding times able (If no, notify customer for a				Yes	V	M	lo 🗌	Checked by:	
Spe	cial Handling (if app	licable)								
16.	Was client notified of all dis	crepancies wi	th this order?	,	Yes		N	lo 🗌	NA 🗹	
	Person Notified:			Date						
	By Whom:			Via:	🗌 eMa	ail 🗌	Phone	Fax	In Person	
	Regarding:									
	Client Instructions:									
17.	Additional remarks:									
18.	Cooler Information	1 - 1		Lange and	120000000		20,000		в	
	Cooler No Temp °C	Condition Good	Seal Intact Yes	Seal No	Seal D	ate	Signe	d By	-	
	1 1.0	3000	103						1.	

HALL ENVIRONMENTAL	ANALYSIS LABOKALOKT	www.hallenvironmental.com	ns NE - Albuquerque, NM 87109	5-3975 Fax 505-345-4107	Analysis Request	_	85 PC	(H7) 1,800 (/	(O) sə NO sıı	A on Aeta I,ID, Iloid Iloid AO)	EDB (Meti 8310 (PM Anions (F, 8260B (Vc 8260B (Vc 8270 (Ser 792) (Ser	×
I		>	4901 Hawkins NE -	Tel. 505-345-3975		lno	esð) H J\egð)	19T 88	-08 + 3	IBT 9 bo	втех + М втех + М трн (мећ	
Time:	Standard X Rush 7/22/2016	Project Name:	Caravan State Unit #7H	Project #:	McCloy Top Soil		Amber Griffin PO # 205-2020	Amber Griffin H6	TY Ves DNO	Sample Temperature: 2, 0 - /, 0CF = /, 0	Container Preservativ HEAL No. Type and # e Type I/O7 # 70	1-40Z00/
Chain-of-Custody Record	ent: Yates Petroleum Corporation		ailing Address:	5 South 4th Street Artesia, NM 88210		ax#:	VQC Package: Standard	2	NELAP Dother	EDD (Type)	Date Time Matrix Sample Request ID	/19/2016 10:00 Soil McCloy Top Soil