

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

June 28, 2016

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

RE: Caravan State Unit Waterline

OrderNo.: 1606982

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/17/2016 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: 1606982

Hall Envi	ronmental Analys		Date Reported: 6/28/2016								
CLIENT: Project:	Yates Petroleum Corp Caravan State Unit W				Lab Order:	16069	82				
Lab ID:	1606982-001			Collection D	ate: 6/15/2016 10	:30:00 A	M				
Client Sample	e ID: Stockpile			Ma	trix: SOIL						
Analyses		Result	PQL Qua	al Units	DF Date Ana	lyzed	Batch ID				
EPA METHO	D 300.0: ANIONS					Ana	lyst: LGT				
Chloride		ND	30	mg/Kg	20 6/20/2016	12:02:00	PM 25953				

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
- H Holding times for preparation of analysis exceede
- 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 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#:	1606982
	28-Jun-16

Client: Project:		es Petroleum Cor wan State Unit W	1											
Sample ID	MB-25953	SampTy	pe: M	BLK	TestCode: EPA Method 300.0: Anions									
Client ID:	PBS	Batch	ID: 25	953	F									
Prep Date:	6/20/2016	Analysis Da	te: 6/	20/2016	S	SeqNo: 10	083001	Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride		ND	1.5											
Sample ID	LCS-25953	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s					
Client ID:	LCSS	Batch	ID: 25	953	F	RunNo: 3								
Prep Date:	6/20/2016	Analysis Da	te: 6/	20/2016	S	SeqNo: 10	083002	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	95.2	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
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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- W Sample container temperature is out of limit as specified
- Page 2 of 2

ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3:	ntat Analysis Laborat 4901 Hawkins Albuquerque, NM 87. 975 FAX: 505-345-41 v.hallenvironmental.c	NE 109 Sam 107	ple Log-In Check List
Client Name: Yates Petroleum Corpora Work Order Numl	ber: 1606982		RcptNo: 1
Received by/date:	$H(\rho)$		
Logged By: Ashley Gallegos 6/17/2016 9:40:00		AR	
	АМ	AJ	
Reviewed By: 0 6//1//6			
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes	No 🗌	Not Present
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?	<u>Courier</u>		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0° C	Yes 🗹	No 🗔	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No 🗌	
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌
10. VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials 🗹
11. Were any sample containers received broken?	Yes 🗌	No 🔽	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗌	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗹	No 🗌	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	Νο	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes 🗋	No 🗌	NA 🗹

Person Notified:	Date	······································	-
By Whom:	Via:	🔄 eMail 🔄 Phone 🗌 Fa	x 🔄 In Person
Regarding:		**************************************	· · · · · · ·
Client Instructions:		· · · · · · · · · · · · · · · · · · ·	

17. Additional remarks:

18. Cooler Information

	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
l		2.3		Yes			

	HALL ENVIRONMENTAL	ANALTSIS LABUKALURY	nental.com	erque, NM 87109	505-345-4107	Reguest		s,8;	ЬС		()	¥0,	(AOV) 808 (AOV) 808 V-im92) 07 Y) səlddu8	28							8021B. Please show BTEX de only, please show on a	by Monday, June 20, 2016.	y notated on the analytical report.
			www.nallenvironmental.com	₹	Tel. 505-345-3975 Fax	Analvsis	əs	eiQ	(SB) (1) э (с	T + 181 18.1	80 1 50 1 50 1 50 1 50 1 50 1 50 1 50 1 5	TEX + MTE TEX + MTE PH Method Method Method Method Meta A10 (PUA ol A10 (PUA o	8 X 2 3 7 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7							Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Anions: Chloride only, please show on a	separate report. Results needed by Monday, June 20, 2016.	ssibility. Any sub-contracted data will be clea
Turn-Around Time:	□ Standard Kush 6/20/2016		Caravan State Unit Wotching	Project #:		1RP-3332	Project Manager:	Amber Griffin		Amber Griffin		emperature: 2 3	Preservativ e Type								that adjust of the off	Received by: Date Time Sep	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Chain-of-Custody Record	Yates Petroleum Corporation			88210		575-513-8799 or 575-748-4111	agriffin@vatespetroleum.com		Level 4 (Full Validation)		Other		Matrix Sample Request ID	Stockpile						Relinci ilshed hv	2 britty	Keiinquisned by:	nples submitted to Hall Environmental may be subcontra
	lient: Yates P		ailing Address:	15 South 4th Street Artesia. NM		Tone #:	nail or Fax#:	VQC Package:	Standard	creditation:	NELAP	EDD (Type)	Date	3/15/2016 10:30 Soil						 3: Time: F			If necessary, san