

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

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 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:

Lab Order: 1606982

Date Reported: 6/28/2016

1606982

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Caravan State Unit Waterline

Lab ID: 1606982-001 **Collection Date:** 6/15/2016 10:30:00 AM

Client Sample ID: Stockpile Matrix: SOIL

Analyses	Result	PQL Qu	al Units	DF	DF Date Analyzed Batch						
EPA METHOD 300.0: ANIONS					Ana	alyst: 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
- 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606982**

28-Jun-16

Client: Yates Petroleum Corporation

Project: Caravan State Unit Waterline

Sample ID MB-25953 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **25953** RunNo: **35022**

Prep Date: 6/20/2016 Analysis Date: 6/20/2016 SeqNo: 1083001 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 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25953 RunNo: 35022

Prep Date: 6/20/2016 Analysis Date: 6/20/2016 SeqNo: 1083002 Units: mg/Kg

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
- 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

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Sample Log-In Check List

Yates Petroleum Corpora Client Name: Work Order Number: 1606982 RcptNo: 1 Received by/date: Logged By: Ashley Gallegos 6/17/2016 9:40:00 AM **Ashley Gallegos** Completed By: 6/17/2016 10:20:42 AM Reviewed By: Chain of Custody Yes No \square Not Present 1. Custody seals intact on sample bottles? No \square Yes 🗸 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? NA 🗌 Yes 🗸 No 5. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🔽 Yes 🗸 No 🗌 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? ~ Yes 9. Was preservative added to bottles? Yes 🗌 No 🗹 NA 🗌 Yes 🗌 No 🛄 No VOA Vials 🗹 10.VOA vials have zero headspace? Yes 🗀 No 🗸 11. Were any sample containers received broken? # of preserved bottles checked No 🗀 for pH: 12. Does paperwork match bottle labels? Yes 🗸 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes 🗹 14. Is it clear what analyses were requested? Yes 🗸 No Yes 🗸 Checked by: 15. Were all holding times able to be met? No 🗔 (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? NA 🗹 Yes 🗌 No 🗀 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp ⁰C Condition Seal Intact | Seal No Seal Date Signed By 2.3 Good Yes

HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	- Albuqu -	lel. 505-345-3975 Fax 505-345-4107			(1,4) (H, 7,50N,1	03 t als ON \ se	Do (Method By (Method By (PNA o By Pesticid CF, CI, CO (Semi-V CYO (Semi-V	8 8 8 8					TPH: 8015B, BTEX: 8021B. Please show BTEX ng/kg. Anions: Chloride only, please show on a	ш.,
		4901 H	l el. 50	ξĮu	ල පුදු) H9T ව) 83	+ ∃8	BTEX + MTE bortheM H9T	×					Remarks: TPH: results as mg/kg.	separate report.
Turn-Around Time: ☐ Standard	Caravan State Hall Miller	Project #:	18P-333		Amber Griffin	Briffin 176	Temperature: 2.5							Part OS/17/16 OJYX	Time
Chain-of-Custody Record Yates Petroleum Corporation		5 South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111	agriffin@yatespetroleum.com	☐ Level 4 (Full Validation)	Other		Matrix Sample Request ID	Soil Stockpile					butta	
Chain-O	ailing Address:	5 South 4th Stree	Hone #:	nail or Fax#:	VQC Package: Standard	 	ype)	Date Time	3/15/2016 10:30					Ω	

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.