

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 |