25-Jul-2018

Dan McWilliams
Gunnison Energy Corporation
3737 Highway 133
Somerset, CO  81434

Re: **Narrows HV Release** Work Order: **18071315**

Dear Dan,

ALS Environmental received 3 samples on 20-Jul-2018 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications.  Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070  FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

**Report of Laboratory Analysis**

Certificate No: MI: 0022

## ALS Group, USA

Date: 25-Jul-18

**Client:** Gunnison Energy Corporation
**Project:** Narrows HV Release
**Work Order:** **18071315**

# Work Order Sample Summary

| Lab Samp ID | Client Sample ID | Matrix | Tag Number | Collection Date | Date Received | Hold |
|---|---|---|---|---|---|---|
| 18071315-01 | Narrows HV - SS2 | Soil | | 7/19/2018 14:45 | 7/20/2018 09:30 | ☐ |
| 18071315-02 | Narrows HV - SS3 | Soil | | 7/19/2018 14:55 | 7/20/2018 09:30 | ☐ |
| 18071315-03 | Narrows HV - SS4 | Soil | | 7/19/2018 15:05 | 7/20/2018 09:30 | ☐ |

# ALS Group, USA

Date: 25-Jul-18

**Client:** Gunnison Energy Corporation
**Project:** Narrows HV Release
**WorkOrder:** **18071315**

## QUALIFIERS, ACRONYMS, UNITS

| Qualifier | Description |
|---|---|
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |

| Acronym | Description |
|---|---|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| Units Reported | Description |
|---|---|
| mmhos/cm @25°C | Millimhos-Centimeter at 25 Degrees Celcius |

# ALS Group, USA

**Date:** *25-Jul-18*

**Client:** Gunnison Energy Corporation
**Project:** Narrows HV Release
**Sample ID:** Narrows HV - SS2
**Collection Date:** 7/19/2018 02:45 PM

**Work Order:** 18071315
**Lab ID:** 18071315-01
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ELECTRICAL CONDUCTIVITY (SAR)** | | Method: | **USDA H60 METHOD 2** | Prep: USDA Method 20B / 7/25/18 | | | Analyst: **JB** |
| **Electrical Conductivity @ Saturation** | **8.5** | | **0.014** | **0.12** | **mmhos/cm @25°** | 25 | 7/25/2018 12:15 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *25-Jul-18*

**Client:** Gunnison Energy Corporation
**Project:** Narrows HV Release
**Sample ID:** Narrows HV - SS3
**Collection Date:** 7/19/2018 02:55 PM

**Work Order:** 18071315
**Lab ID:** 18071315-02
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ELECTRICAL CONDUCTIVITY (SAR)** | | Method: | **USDA H60 METHOD 2** | Prep: USDA Method 20B / 7/25/18 | | | Analyst: **JB** |
| **Electrical Conductivity @ Saturation** | **1.4** | | **0.014** | **0.12** | **mmhos/cm @25°** | 25 | 7/25/2018 12:15 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

# ALS Group, USA

**Date:** *25-Jul-18*

**Client:** Gunnison Energy Corporation
**Project:** Narrows HV Release
**Sample ID:** Narrows HV - SS4
**Collection Date:** 7/19/2018 03:05 PM

**Work Order:** 18071315
**Lab ID:** 18071315-03
**Matrix:** SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ELECTRICAL CONDUCTIVITY (SAR)** | | Method: | **USDA H60 METHOD 2** | | Prep: USDA Method 20B / 7/25/18 | | Analyst: **JB** |
| **Electrical Conductivity @ Saturation** | **3.2** | | **0.014** | **0.12** | **mmhos/cm @25°** | 25 | 7/25/2018 12:15 |

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 25-Jul-18

**Client:** Gunnison Energy Corporation

**Work Order:** 18071315

**Project:** Narrows HV Release

# QC BATCH REPORT

Batch ID: **121836** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

**DUP** Sample ID: **18071356-03A DUP** Units: **mmhos/cm @25°** Analysis Date: **7/25/2018 12:15 PM**

Client ID: Run ID: **WETCHEM_180725F** SeqNo: **5166666** Prep Date: **7/25/2018** DF: **25**

| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Electrical Conductivity @ Saturation | 1.4 | 0.12 | 0 | 0 | 0 | | 0.97 | 36.3 | 50 | |

**The following samples were analyzed in this batch:**

| | | |
|---|---|---|
| 18071315-01A | 18071315-02A | 18071315-03A |

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

# Chain of Custody Form

ALS Environmental

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH +1 513 733 5336 ☑ Holland, MI +1 616 399 6070 ☐ Salt Lake City, UT +1 801 266 7700
☐ Everett, WA +1 425 356 2600 ☐ Houston, TX +1 281 530 5656 ☐ Spring City, PA +1 610 948 4903
☐ Fort Collins, CO +1 970 490 1511 ☐ Middletown, PA +1 717 944 5541 ☐ York, PA +1 717 505 5280

ALS Project Manager: | Work Order #: 1807131S

| Customer Information | | Project Information | | Parameter/Method Request for Analysis | |
|---|---|---|---|---|---|
| Purchase Order | | Project Name | Narrows HV Release | A | TPH (GRO & DRO) |
| Work Order | | Project Number | | B | BTEX |
| Company Name | Gunnison Energy Corp | Bill To Company | Gunnison Energy Corporation | C | PAH (See Attached List) CO Table 910 |
| Send Report To | Dan McWilliams &Tim Dobrar | Invoice Attn. | Dan McWilliams | D | Electrical Conductivity |
| Address | | Address | | E | Sodium Adsorption Ratio |
| | | | | F | pH |
| City/State/Zip | | City/State/Zip | | G | Metals (See Attached List) CO Table 910 |
| Phone | | Phone | | H | TCLP Metals |
| Fax | | Fax | | I | Paint Filter |
| e-Mail Address | tdobransky@oaconsulting.com Dan.McWilliams@OXBOW.com | e-Mail Address | | J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~1~~ | ~~NARROWS HV - SS1~~ | ~~07/19/18~~ | | ~~Soil~~ | ~~8~~ | ~~1~~ | | | | ~~X~~ | | TPO | | | | | |
| 2 | NARROWS HV - SS2 | 07/19/18 | 1445 | Soil | 8 | 1 | | | | X | | | | | | | |
| 3 | NARROWS HV - SS3 | 07/19/18 | 1455 | Soil | 8 | 1 | | | | X | | | | | | | |
| 4 | NARROWS HV - SS4 | 07/19/18 | 1505 | Soil | 8 | 1 | | | | X | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |

Sampler(s): Please Print & Sign: Tim Dobransky

Shipment Method: FedEx

Required Turnaround Time: ☑ Other ____ ☐ STD 10 Wk ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Date: 7/19/18 | Time: | Received by: | Notes: 3 Day RUSH | |
| Relinquished by: | Date: 7-19-18 | Time: 1830 | Received by (Laboratory): 7/20/18 0930 | Cooler Temp. 3.4°C | QC Package: (Check Box Below) |
| Logged by (Laboratory): KLW | Date: 7/20/18 | Time: 1520 | Checked by (Laboratory): | | x Level II: Standard QC ☐ ☐ Level III: Std QC + Raw ☐ ☐ Level IV: SW846 CLP- ☐ ☐ Other |

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

ALS Group, USA

## Sample Receipt Checklist

Client Name: **GUNNISON** Date/Time Received: **20-Jul-18 09:30**

Work Order: **18071315** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 20-Jul-18 (Date) Reviewed by: Tom Bramish (eSignature) 20-Jul-18 (Date)

Matrices: Soil

Carrier name: FedEx

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☐ | No ☐ | Not Present ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Sample(s) received on ice? | Yes ☑ | No ☐ | |
| Temperature(s)/Thermometer(s): | 3.4/3.4 C | SR2 | |
| Cooler(s)/Kit(s): | | | |
| Date/Time sample(s) sent to storage: | 7/20/2018 3:25:01 PM | | |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☑ |
| Water - pH acceptable upon receipt? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted? | Yes ☐ | No ☐ | N/A ☑ |
| pH adjusted by: | - | | |

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: