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Mr. Scot Donato
Great Western Operating Company LLC
1801 Broadway, Suite 500
Denver, Co.  80202

July 31,  2015

Facility  ID:  444442

RE:  SAR Followup Sampling, July 2015, Weld County Airport -  Drilling Mud Beneficial Re-Use
Application Site (portion of E1/2 Section 35, T6N, R65W),  MEC # 2015.125b

Attached please find the results of the July 2015 SAR analysis sampling  at the Great Western, Drilling
Mud Beneficial Re-Use Airport site, Weld County, Co.  The SAR sampling focused on the areas that
had elevated SAR levels in the April 2015 site sampling.

Specifically, the April 2015 samples with elevated SAR results above the regulatory guideline levels of
12.0 were: POD-C-North (SAR 17.4);  POD-C-South (SAR 16.2), and POD-D- North (SAR 12.9).
These results were documented in the May 2015 memo.

These POD areas were re-sampled on July 19, 2015.  It was anticipated that the above normal rainfall
precipitation in April and May may have been assisted in decreasing the SAR ratios.

The July 2015 sampling included the collection of a composite soil sample from the three areas with
elevated SAR results in the April 2015 sampling.  The composite samples included the collection of 6
aliquot samples from the respective sampling areas.  These aliquot portions were mixed together for a
representative composite samples.  The composite samples were mixed in a pre-cleaned stainless steel
bowl and a lab sample was collected in pre-cleaned sampling jar provided by the laboratory.

The site soils were moist and soft.  In comparison the site soils at the time of the prior April 2015 were
hard and dry.

**Sampling Results**

The SAR results were below the regulatory guideline levels.  Specifically, the SAR results are: POD-C-
North (SAR 1.8);  POD-C-South (SAR 3.8), and POD-D- North (SAR 4.4).

The results of the sampling are included in the summary tables for the respective sampling Pods.

**FINDINGS  &  RECOMMENDATIONS**

The July 2015 SAR sampling results are below the regulatory guideline level of 12.0.

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Based on these current results and the prior soil screening sample results, the site soil conditions are in compliance with the COGCC Table 910-1 parameters.

Therefore, since there have been no recent drilling mud application at the site, it is recommended the site closure process continue in accordance with the COGCC regulations.   At a minimum, the subsequent closure activities may include regrading and seeding with native grasses.  It is suggested that the reseeding include winter grasses or wheat that may be established with limited precipitation.

MEC Inc. appreciates the opportunity to provide you with these environmental consulting services.  If you have any further questions, please contact me, 970-381-5951.


Thank you

*John Mahoney*

John Mahoney
Professional Geologist

# WELD LABORATORIES, INC.

1527 First Avenue • Greeley, Colorado 80631
Phone: (970) 353-8118 • Fax: (970) 353-1671
www.weldlabs.com

July 27, 2015

Mahoney Environmental Consulting, Inc.
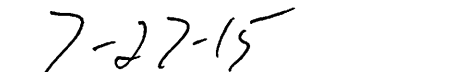1601 10th Ave.
Greeley, CO  80631

Laboratory No.    E15202-2A
Sample ID:        C-South

|                                  | Results |
|----------------------------------|---------|
| Calcium (ppm)                    | 110     |
| Magnesium (ppm)                  | 23.1    |
| Sodium (ppm)                     | 168.5   |
| Sodium Adsoption Ratio           | 3.8     |
| Saturated Pasted Saturation (%)  | 32.3    |

Project Manager                                     Date    7-27-15

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July 27, 2015

Mahoney Environmental Consulting, Inc.
1601 10th Ave.
Greeley, CO  80631

Laboratory No.    E15202-2B
Sample ID:        D-North

|                                   | Results |
| --------------------------------- | ------- |
| Calcium (ppm)                     | 168     |
| Magnesium (ppm)                   | 41.4    |
| Sodium (ppm)                      | 247.5   |
| Sodium Adsoption Ratio            | 4.4     |
| Saturated Pasted Saturation (%)   | 37.4    |

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Project Manager

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7-27-15
Date

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Phone: (970) 353-8118 • Fax: (970) 353-1671
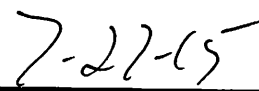www.weldlabs.com

July 27, 2015

Mahoney Environmental Consulting, Inc.
1601 10th Ave.
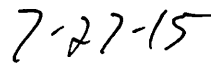Greeley, CO  80631

Laboratory No.      E15202-2C
Sample ID:          C-North

|  | **Results** |
|---|---|
| Calcium (ppm) | 120.5 |
| Magnesium (ppm) | 26.9 |
| Sodium (ppm) | 84.5 |
| Sodium Adsoption Ratio | 1.8 |
| Saturated Pasted Saturation (%) | 30.1 |

_____      7-27-15
Project Manager                         Date

# Chain of Custody Record

COMPANY NAME _MAHONEY ENVIRONMENTAL_   CONTACT NAME _John MAHoney_   TELEPHONE NO. _970-381-5957_

Samplers: Print Name _John MAHoney_   Signature _John Mahoney_

| SAMPLE ID | SAMPLE LOCATION | Composite | Grab | Date | Time | Water | Liquid | Oil | Solid | No. of Containers and Type | SAP | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C-South | | | 1 | 7/19/15 | | | | | 1 | 1 | 1 | | | | | | | | |
| D-North | | | 2 | 7/19/15 | | | | | 2 | 1 | 2 | | | | | | | | |
| C-North | | | 2 | 7/19/15 | | | | | 1 | 1 | 1 | | | | | | | | |
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COMMENTS:

| | Received by: (Signature) | Date | Time |
|---|---|---|---|
| Relinquished by: (Signature) | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date | Time |
| Dispatched by: (Signature)   Date: 7/21/15  Time: 5:07pm | Received for Laboratory By: | Date 7-21-15 | Time 5:10pm |
| Method of Shipment: _delivered by MEC  FRC_ | | | |