



STATE OF
COLORADO

Allison - DNR, Rick <rick.allison@state.co.us>

Cockroft Land Application Site Closure

Allison - DNR, Rick <rick.allison@state.co.us>
To: "Mark E. Brown" <mbrown@bayswater.us>
Cc: Candice Graber - DNR <candice.graber@state.co.us>

Fri, Dec 14, 2018 at 10:25 AM

Hi Mark,

Please provide an update for the status of sampling at the Cockroft Land Application Site. I am going to approve the Sundry submitted in June to update the file with what has been done, but they land application site will remain active/unresolved until the requested additional sample results have been received.

Let me know if you have any questions.
Rick

Richard Allison, P.G.
Environmental Protection Specialist, Northeast Colorado

co_dnr_div_ogcc_300_rgb_ltrhd_v3

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1120 Lincoln Street, Suite 801, Denver, CO 80203
rick.allison@state.co.us | www.colorado.gov/cogcc

On Wed, Sep 19, 2018 at 1:24 PM Mark E. Brown <mbrown@bayswater.us> wrote:

Thanks, we'll get some samples taken.

From: Allison - DNR, Rick [mailto:rick.allison@state.co.us]
Sent: Wednesday, September 19, 2018 1:12 PM
To: Mark E. Brown <mbrown@bayswater.us>
Subject: Re: Cockroft Land Application Site Closure

Mark

From my records, the area in blue would be the appropriate area to sample.

Rick

Richard Allison, P.G.
Environmental Protection Specialist, Northeast Colorado



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On Wed, Sep 19, 2018 at 10:20 AM, Mark E. Brown <mbrown@bayswater.us> wrote:

Rick, From my recollection of the cuttings down by the PDC site, the area I've circled in BLUE on the attached is where I'd say we collect an additional composite sample. Do you agree with that?

Thanks

Mark

From: Allison - DNR, Rick [<mailto:rick.allison@state.co.us>]
Sent: Wednesday, September 12, 2018 9:46 AM
To: Mark E. Brown <mbrown@bayswater.us>
Subject: Fwd: Cockroft Land Application Site Closure

Hi Mark,

The WMP that Meagan had attached was in the file when I first reviewed the closure request. The following points still need to be addressed to proceed with closure of this land application site.

1. Samples Comp07 and Comp08 each contain levels of SAR and EC that exceed the Table 910-1 allowable level for those parameters. The background data provided with the Waste Management Plan do not indicate that elevated background levels of SAR and EC are present. Therefore, SAR and EC must comply with Table 910-1 prior to site closure.
2. Previous site visits by COGCC and discussions with Bayswater and Kinetic have documented that cuttings were stockpiled on the PDC Energy Cockroft 19V tank battery and spread along the slope west and north of the Cockroft 19V tank battery. This area must also be sampled for compliance with Table 910-1 and evaluated to ensure all cuttings have been removed or incorporated in accordance with the Waste Management Plan and Drill Cuttings Management Policy.

Let me know if you have any questions.

Rick

Richard Allison, P.G.
Environmental Protection Specialist, Northeast Colorado



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----- Forwarded message -----

From: Meagan M. Miller <MMiller@bayswater.us>
Date: Thu, Jul 12, 2018 at 11:57 AM
Subject: RE: Cockroft Land Application Site Closure
To: "Mark E. Brown" <MBrown@bayswater.us>, "Allison - DNR, Rick" <rick.allison@state.co.us>

Rick-

Here is the Cockroft WMP that was included with the application in 2015. The background samples are within the plan.

Please let me know if you have any questions

Thank you

Meagan

Meagan M. Miller

Bayswater Exploration & Production

303-893-2503 x204

From: Mark E. Brown
Sent: Thursday, July 12, 2018 7:27 AM
To: Allison - DNR, Rick <rick.allison@state.co.us>; Meagan M. Miller <MMiller@bayswater.us>
Subject: RE: Cockroft Land Application Site Closure

[My comments below.](#)

From: Allison - DNR, Rick [<mailto:rick.allison@state.co.us>]
Sent: Wednesday, July 11, 2018 3:03 PM
To: Meagan M. Miller <MMiller@bayswater.us>; Mark E. Brown <MBrown@bayswater.us>
Subject: Cockroft Land Application Site Closure

Hi Meagan and Mark,

COGCC has received the closure request for the Cockroft Land Application Site. The following items need to be addressed before COGCC can grant closure:

1. Samples Comp07 and Comp08 each contain levels of SAR and EC that exceed the Table 910-1 allowable level for those parameters. Please provide background data to support these levels or prepare a Form 27 Site Investigation and Remediation Workplan to address the elevated levels. [Again, I know we collected pre spread samples and will track those down.](#)
2. Previous site visits by COGCC and discussions with Bayswater and Kinetic have documented that cuttings were stockpiled on the PDC Energy Cockroft 19V tank battery and spread along the slope west and north of the Cockroft 19V tank battery. This area must also be sampled for compliance with Table 910-1 and evaluated to ensure all cuttings have been removed or incorporated in accordance with the Waste Management Plan and Drill Cuttings Management Policy. [Let us take a look at the sample points again and can arrange to catch some additional samples.](#)

Thx

Mark

Please let me know if you have questions about the above requirements.

Rick

Richard Allison, P.G.
Environmental Protection Specialist, Northeast Colorado



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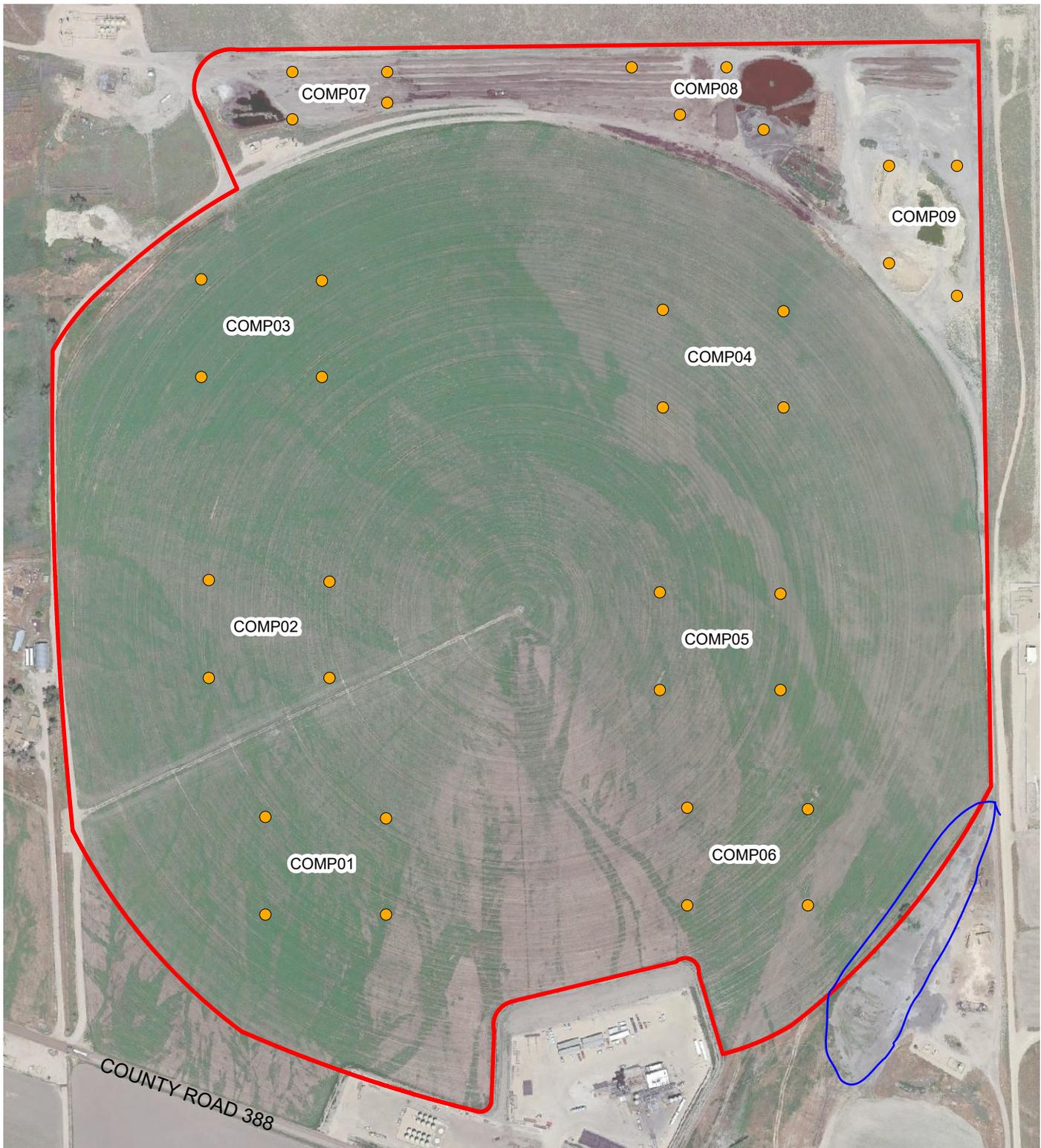


IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

- COMPOSITE SOIL SAMPLE
- SPREADFIELD BOUNDARY

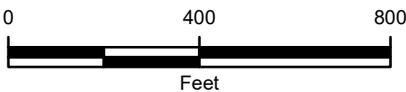


FIGURE 1
SITE MAP
COCKROFT SPREADFIELD
SEC 18 & 19-T5N-R63W
WELD COUNTY, COLORADO
BAYSWATER EXPLORATION & PRODUCTION, LLC

