From: Fischer, Alex
To: "Will Russell"; Scan, OGCC
Cc: Alan Ennis; Rick Radke
Subject: FW: Big Hole gulch Unit #3; Location ID 414331
Date: Wednesday, January 25, 2012 11:13:33 AM
Attachments: YATES 30070.pdf

Will-Review of the data shows that Benzene is above the 910-1 Table. The threshold is 0.17 mg/kg. The analytical results provided indicate 0.74 mg/kg. Would you be able to blend the cuttings with clean material and resample, analyzing for benzene, toluene, ethylbenzene, and toluene, to demonstrated that you have met the 910-1 standards?

Amber-please upload this email and attachment to Location ID 414331 and API 081-07597. Please title "January 25, 2012 Cutting Pit Correspondence."

Thanks
Alex

Alex Fischer, P.G.

Environmental Supervisor - Western Colorado

Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801

Denver, CO 80203

(303) 894-2100 ext. 5138

(303) 894-2109 fax

alex.fischer@state.co.us

From: Will Russell [mailto:WillR@yatespetroleum.com]
Sent: Wednesday, January 25, 2012 10:55 AM
To: Fischer, Alex
Cc: Alan Ennis; Rick Radke
Subject: RE: Big Hole gulch Unit #3

Alex,
I have attached our results for the Big Hole Gulch #3 cuttings pit.
Please call me or email. 307-389-8360
Will C Russell

From: Fischer, Alex [mailto:Alex.Fischer@state.co.us]
Sent: Thursday, December 08, 2011 9:19 AM
To: Will Russell
Subject: RE: Big Hole gulch Unit #3

Will,

That is correct. However, please have at least one sample analyzed for all of the parameters below.

Thanks
Alex

TPH (total volatile and extractable petroleum hydrocarbons)	**500 mg/kg**
Benzene	**0.17 mg/kg2**
Toluene	**85 mg/kg2**
Ethylbenzene	**100 mg/kg2**
Xylenes (total	**175 mg/kg2**
Acenaphthene	**1,000 mg/kg2**
Anthracene	**1,000 mg/kg2**
Benzo(A)anthracene	**0.22 mg/kg2**
Benzo(B)fluoranthene	**0.22 mg/kg2**
Benzo(K)fluoranthene	**2.2 mg/kg2**
Benzo(A)pyrene	**0.022 mg/kg2**
Chrysene	**22 mg/kg2**
Dibenzo(A,H)anthracene	**0.022 mg/kg2**
Fluoranthene	**1,000 mg/kg2**
Fluorene	**1,000 mg/kg2**
Indeno(1,2,3,C,D)pyrene	**0.22 mg/kg2**
Napthalene	**23 mg/kg2**
Pyrene	**1,000 mg/kg2**

From: Will Russell [mailto:WillR@yatespetroleum.com]
Sent: Thursday, December 08, 2011 8:38 AM
To: Fischer, Alex
Cc: Alan Ennis
Subject: RE: Big Hole gulch Unit #3

Alex,
I have collected 4 samples and I will be sending them off to the lab. I wanted to make sure that the below information is all that Yates needs to test the samples for:

1. Benzene
2. Toluene
3. Ethyl Benzene
4. Xylenes
5. And total petroleum hydrocarbons

Will C Russell

From: Fischer, Alex [mailto:Alex.Fischer@state.co.us]
Sent: Friday, September 16, 2011 7:22 AM
To: Will Russell
Subject: Big Hole gulch Unit #3

Will,

Based upon the review of the analytical data, the following is needed:

- Collect discrete samples to adequately characterize the cuttings. These samples should be analyzed for: Benzene, toluene, ethyl benzene, xylenes, and total petroleum hydrocarbons.

If these constituents are below concentration levels listed in Table 910-1, then the cuttings trench can be closed. If the constituents are greater than what is listed in Table 910-1, the cuttings will need to be remediated until these levels are met.

Thanks
Alex

Alex Fischer, P.G.

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