From: Williams, Jonathan
To: Sheldrake, Beth
Cc: McDonnell, Kimberlee
Subject: FW: Field Observations During Utility Trenching and Potential Preconditioning Concern
Date: Thursday, May 12, 2016 8:56:00 AM

FYI. More surprises.

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From: Williams, Jonathan
Sent: Thursday, May 12, 2016 8:49 AM
To: 'Benchouk, Michele [USA]'
Cc: Tim Norman ; Cliff Merrill
Subject: RE: Field Observations During Utility Trenching and Potential Preconditioning Concern

Thanks for the info. We need to bring up the excavation work surprises if FMC does not, ask appropriate questions about how to safely proceed, and ask about what else is buried that hasn't been disclosed.

The approach of working within the existing borrow source until the remainder of the 80 acre excavation within the WUA is surveyed for cultural resources depends upon additional input from the BAH archaeologist. I suggest we not say anything other than to mention plans for the cultural resource survey next week, which will include at least Larae Bill of the Tribes' cultural resources department, for the planned excavation area outside of the existing pit.

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From: Benchouk, Michele [USA] [mailto:Benchouk_Michele@bah.com]
Sent: Thursday, May 12, 2016 7:32 AM
To: Williams, Jonathan <Williams.Jonathan@epa.gov>
Cc: Tim Norman <Tim.Norman@akana.us>; Cliff Merrill <Cliff.Merrill@akana.us>
Subject: Field Observations During Utility Trenching and Potential Preconditioning Concern

Jonathan,

I just got off the phone with Tim Norman. Yesterday, while installing utility trenches between the training center and the redevelopment area, KW encountered a number of obstacles, including old decommissioned stormwater lines and old electrical conduits with wire, etc. These obstacles are not altogether unexpected and they are routing the trenches around them. However, Tim indicated that the also found a large cavern at least 30 feet deep that appears to be part of the former rail dump and tunnel system. The opening to this area (4 feet by 12 feet) was covered by a steel plate that was

damaged during excavation. In addition, another underground cement structure was encountered, which may be another sanitary sewer vault. Tim will be sending over more detail, including photographs, but we wanted to let you know before the weekly field progress call today.

In addition, there is a potential concern over preconditioning within the WUA – Tim, feel free to input on this issue if I've missed something. Apparently, although not specified in the recently resubmitted documentation, FMC proposes to use a different method for preconditioning soil within the existing borrow pit area than is being used in undisturbed areas of the WUA. These is a concern that cap test pads constructed with soil preconditioned in one way (at the existing borrow area) will provide information on compaction that isn't translatable to soil from the remainder of the WUA that is preconditioned in another manner. It may be worthwhile discussing this issue with FMC if they are allowed to move forward with use of the existing borrow pit soil.

Finally, as field work continues to slow down, Tim/Cliff would be available to help support the cultural resources survey next week and subsequent monitoring of the excavations over time for potential cultural resources.

Michele