From: Granger, Michelle
To: Erin.M.Hauber@usace.army.mil
Subject: FW: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]
Date: Thursday, February 8, 2018 9:03:51 AM
Attachments: Draft QAPP Rev9 Tables_20180207.pdf

Hi, Erin-

Please see below.

Also, just want to confirm that we didn't have any outstanding issues regarding the QAPP. I want to let Bruce know that my approval includes the QAPP revision 9 as well. Please let me know.

Thank you!
Michelle-

From: Bruce S Kennington [bkennington@ramboll.com]
Sent: Wednesday, February 7, 2018 5:32 PM
To: Granger, Michelle
Cc: Angela DeDolph
Subject: RE: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]

Michelle:

A complete set of tables for the Draft QAPP (Rev 9) is attached. Please let me know you there are any questions or if you may require additional information.

We had submitted the Draft QAPP (Rev 9) as an Appendix to the RDWP. Now that the USEPA has approved the RDWP for OU3, please confirm if this also constitutes approval of the QAPP (Rev 9), as well.

Kind regards,
Bruce S. Kennington

Senior Managing Consultant

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bkennington@ramboll.com

From: Bruce S Kennington
Sent: Tuesday, February 06, 2018 4:43 PM
To: 'Granger, Michelle' <Granger.Michelle@epa.gov>
Subject: RE: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]

Michelle:

Yes, you have the correct version of the QAPP. Erin Hauber is correct in that we only included tables in the Draft QAPP submittal that had changes going from Rev 8 to Rev 9.

If you would like to see a complete set of tables, I can have those sent to you tomorrow (on Wed).

Kind regards,
Bruce S. Kennington

Senior Managing Consultant

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M +1 312 953 9965
bkennington@ramboll.com<mailto:bkennington@ramboll.com>

From: Granger, Michelle [mailto:Granger.Michelle@epa.gov]
Sent: Tuesday, February 06, 2018 2:40 PM
To: Bruce S Kennington <bkennington@ramboll.com<mailto:bkennington@ramboll.com>>
Subject: FW: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]

Hi, Bruce-

Please see below. I received some clarification from Erin on the tables. We only see Tables 2C, 3A, 3B. Are we looking at the right version?
Thank you!
Michelle-

From: Hauber, Erin M CIV USARMY CENWK (US) [mailto:Erin.M.Hauber@usace.army.mil]
Sent: Tuesday, February 06, 2018 9:16 AM
To: Granger, Michelle <Granger.Michelle@epa.gov<mailto:Granger.Michelle@epa.gov>>
Subject: RE: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]

Michelle,

I attached the combined RDWP and QAPP that we downloaded from Ramboll's FTP. We only see Tables 2C, 3A, 3B. For instance, Table 4C is missing which is Cascade MobiLab Accuracy and Precision Control Limits for Soil Analytical Parameters. Perhaps they were only including tables that were revised between the initial and revised draft? We wanted to confirm the rationale for partial inclusion of tables and make sure we're working from the complete QAPP Rev_9. Otherwise, we don’t have any outstanding issues.

Thanks for forwarding Cascade's updated SOP!

Erin

-----Original Message-----
From: Granger, Michelle [mailto:Granger.Michelle@epa.gov]
Sent: Tuesday, February 6, 2018 5:12 AM
To: Hauber, Erin M CIV USARMY CENWK (US)
<Erin.M.Hauber@usace.army.mil<mailto:Erin.M.Hauber@usace.army.mil>>
Subject: [Non-DoD Source] FW: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]

Hi, Erin-

Please see Bruce's message below.

Best,

Michelle-

From: Bruce S Kennington [bkennington@ramboll.com]

Sent: Friday, February 2, 2018 12:15 PM

To: Granger, Michelle

Cc: Angela DeDolph; Roy Duckett (Roy.duckett@riotinto.com<mailto:Roy.duckett@riotinto.com>)

Subject: RE: Thank you and question... [Revised Draft QAPP (Rev 9), OU3, PVGCS Site]

Dear Michelle:

I left a voice message for you on the below request, and am following up with details in the below.

1. We are not aware that any tables were missing from the revised Draft QAPP (Rev 9) submitted on Dec 15th, but please let us know what you may be looking for.

If this is in regard to the number of spilt samples the Agency may be looking to collect, please see the below table with our projected estimate of soil samples for collection during the PDI soil boring program for OU3.

Projected Quantity of PDI Soil Samples

Number of Field Dups

Number of MS/MSDs

Number of Equipment Blanks

1 per 20 samples

1 per 20 samples

1 per 20 or 1 per week (whichever is more frequent)

1,002

50

50

50

2. With respect to the Cascade Mobil Lab SOP, at the time of submittal of our Revised Draft QAPP (Rev 9) on Dec 15th, this document had not yet been finalized by Cascade. We have since received this information, and a copy of the Cascade Mobile Lab SOPs are attached to this e-mail.

Upon receipt of notice from USEPA that the remaining proposed revisions included in the Draft QAPP (Rev 9) are acceptable, we will finalize QAPP (Rev 9) and include the Cascade Mobile Lab SOP in an Appendix in this submittal.

If you would like to discuss, please let me know and I will setup a call. We look forward to your e-mail next week re: USEPA approval of the RDWP for OU3, and next steps so that we might finalize this document and proceed with the planned PDI field activities.

Sincerely,

Bruce S. Kennington

Senior Managing Consultant

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M +1 312 953 9965

bkennington@ramboll.com<mailto:bkennington@ramboll.com>

-----Original Message-----

From: Granger, Michelle [mailto:Granger.Michelle@epa.gov]

Sent: Thursday, February 01, 2018 12:08 PM

To: Bruce S Kennington <bkennington@ramboll.com<mailto:bkennington@ramboll.com>>

Subject: Thank you and question...

Hi, Bruce-

Thank you for a productive site visit! Quick question--when should we expect to see Draft QAPP_Rev 9 – missing tables and updated Cascade Mobile Lab SOPs? These will support split sampling QAPP scope. Also, I'll be sending

a separate email early next week re: RDWP approval. I'll be in touch soon.

Thank you!

Michelle-