From:	Walls (Young), Suzy
To:	Mitchell, Tanya
Cc:	Gary M. Fisher; Draikiwicz, Michael (michael.draikiwicz@novartis.com); " (pete.bergeron@chevron.com)"; Persico, John; Ricci, Richard F.; mfaigen@issuesllc.com; Gutherz, Andrew
Subject:	RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13
Date:	Thursday, June 25, 2015 12:56:19 PM
Attachments:	Rolling Knolls Monitoring Well Location Modification_FCN 08rev-062415.pdf Rolling Knolls Monitoring Well Location Modification_FCN 08rev-062415_clean.pdf

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Tanya,

The FCR-08 has been revised as requested. However, CDM indicated that USEPA's analytical laboratory has changed since the December 17, 2014 email that documents USEPA's required pore-water sample volumes. Please confirm that the volumes listed below are still correct for USEPA split samples so that we can ensure we have enough volume prior to deployment.

Sample location PW-1

With MS/MSD the total PDB volume is 2100 ml, from the following:

- VOC – 2 HCL preserved vials – total volume with MS/MSD is 80 ml
- Metals and Mercury – 1 HNO3 preserved poly – total volume with MS/MSD is 1 L.
- Cyanide - 1 NaOH preserved poly – total volume with MS/MSD is 1 L.

With MS/MSD the total volume is 7 L, from the following:

- **SVOC** – 1 amber unpreserved – 1 L no MS/MSD
- **Pesticides** - 1 amber unpreserved – the total volume with MS/MSD is 3 L.
- **PCBs** - 1 amber unpreserved – the total volume with MS/MSD is 3 L.

Thanks,

Suzy

Suzy Walls | Senior Ecologist / Certified Project Manager | suzy.walls@arcadis-us.com
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www.arcadis-us.com

From: Mitchell, Tanya [mailto:Mitchell.Tanya@epa.gov]
Sent: Tuesday, June 23, 2015 3:59 PM
To: Walls (Young), Suzy
Cc: Gary M. Fisher; Draikiwicz, Michael (michael.draikiwicz@novartis.com); ' (pete.bergeron@chevron.com)'; Persico, John
Subject: RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13

Confirmation of this email is requested.

Suzy,

I have reviewed the redline revised FCR-08 and it is not approved as submitted. The purpose of the FCR is to document changes in field activities that are inconsistent with the approved SAP/QAPP. Please delete the last sentence in the "**RECOMMENDED MODIFICATIONS.** EPA previously submitted sample volumes via email to ARCADIS on 12/17/14.

A revised FCR-08 for MW-13 is requested within three days of receipt of this email. Should you have any questions or concerns regarding this email, please notify me receipt of this email.

Regards,

Tanya

From: Walls (Young), Suzy [mailto:Suzy.Walls@arcadis-us.com]
Sent: Thursday, June 18, 2015 5:04 PM

To: Mitchell, Tanya
Cc: Gary M. Fisher; Draikiwicz, Michael (michael.draikiwicz@novartis.com); ' (pete.bergeron@chevron.com)'; Persico, John; Ricci, Richard F.
Subject: RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13

Tanya,

We have revised FCR-08 as requested. While we removed the email references, we maintained the hierarchy of sample analysis for the PushPoint samples, as Table 1 in the SAP does not clearly state that ARCADIS samples will be collected before USEPA samples, and also does not discuss the order or collection of duplicates and MS/MSD samples.

I have attached a version of this FCR in RLSO and also as a clean version, so you can see our changes.

Please let me know if you have any other questions or comments.

Thanks,

Suzy

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From: Mitchell, Tanya [mailto:Mitchell.Tanya@epa.gov]
Sent: Tuesday, June 16, 2015 10:01 AM
To: Walls (Young), Suzy
Cc: Gary M. Fisher; Draikiwicz, Michael (michael.draikiwicz@novartis.com); ' (pete.bergeron@chevron.com)'; Persico, John
Subject: RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13

Confirmation of this email is requested.

Hi Suzy,

I have reviewed FCR-08 and it is not approved as submitted. The purpose of the FCR is to document changes in field activities that are inconsistent with the approved SAP/QAPP. As previously discussed with the Group and ARCADIS, a FCR is generally 1-2 pages. The primary purpose is to change MW-13 installation to pore water samples. The analytical parameters should be consistent with the approved analyses in the SAP Table 1. Please resubmit the FCR-08 with references to the SAP/QAPP. The attached emails should be deleted along with the references to emails in the FCR. It is appropriate to retain Figure 1 in the FCR.

A revised FCR-08 for MW-13 is requested within three days of receipt of this email. Should you have any questions or concerns regarding this email, please notify me receipt of this email.

Regards,

Tanya

From: Walls (Young), Suzy [mailto:Suzy.Walls@arcadis-us.com]
Sent: Tuesday, June 09, 2015 3:58 PM
To: Mitchell, Tanya
Cc: Ricci, Richard F.; Gary M. Fisher; Draikiwicz, Michael (michael.draikiwicz@novartis.com); ' (pete.bergeron@chevron.com)'; mfaigen@issuesllc.com; Persico, John; Gutherz, Andrew
Subject: Rolling Knolls - FCR-08 Pore-water samples at MW-13

Tanya,

The Field Change Request for the collection of porewater samples in place of MW-13 is attached. Please let me know if you have any questions or comments.

Thanks,

Suzy

Suzy Walls | Ecologist / Certified Project Manager | suzy.walls@arcadis-us.com
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