To: Brown, Anthony R (RM)[anthony.brown@bp.com]
Cc: Lombardi, Marc (marc.lombardi@amecfw.com)[marc.lombardi@amecfw.com]; Jefferson, Jill[Jill.Jefferson@amecfw.com]; Greg Reller[gr@burlesonconsulting.com]; Cory Koger[Cory.S.Koger@usace.army.mil]; Chang, Kay SPK[Kay.Chang@usace.army.mil]; Hillenbrand, John[Hillenbrand.John@epa.gov]
From: Deschambault, Lynda
Sent: Tue 5/30/2017 6:29:45 PM
Subject: FW: May 19 Followup: Surface Discharge

Dear Mr. Brown,

EPA concurs that the surface discharges are super interesting and glad that you are amenable to additional review and a call.

Perhaps a call on Thursday morning or Friday of this week? Let me know your availability. In the meantime, here are a few thoughts;

- EPA appreciates the efforts to identify the surface discharges and looks forward to receipt of the map showing locations of the seeps/springs.
- EPA agrees that we should do a call to clarify what data AMEC is already collecting and what data is important to gather and include in the surface water data summary reports? (For example, are both total and dissolved metals collected?)
- Since the snow is rapidly melting, surface water flows appear to be receding, and many of the seeps may soon dry, this work should be completed quickly.
- An inspection of the Leviathan Canyon Landslide for springs and ponds appears to be in order to identify any areas that may yield acid waters—such information would likely support the ongoing efforts to determine if the landslide contains acid generating material, and/or is a pathway for acid drainage
- Yes, please include all information in the water balance study and site conceptual model in the December 31, 2016 Site Characterization.

Let us know your availability for a call on Thursday morning or Friday of this week

Lynda

From: Brown, Anthony R (RM) [mailto:anthony.brown@bp.com]
Sent: Friday, May 26, 2017 7:32 PM
To: McCarthy, Dave T (Copper Environmental Consulting) <dave.mccarthy@copperenv.com>; Johnson, Mike (COPPER ENVIRONMENTAL CONSULTING) <Mike.Johnson@copperenv.com>; 'Andy Slavik' <andy.slavik@copperenv.com>; abby.cazier@copperenv.com; Olson, Eric (COPPER ENVIRONMENTAL CONSULTING) <eric.olson@copperenv.com>; Lombardi, Marc <Marc.Lombardi@amecfw.com>; Jefferson, Jill (jill.jefferson@amecfw.com) <jill.jefferson@amecfw.com>; Parrish, Kent (kent.parrish@amecfw.com) <kent.parrish@amecfw.com>; Andrews, Andy (andy.andrews@amecfw.com) <andy.andrews@amecfw.com>; Grant Ohland - (gohland@ohlandhydrogeo.com) <gohland@ohlandhydrogeo.com>
Cc: Deschambault, Lynda <Deschambault.Lynda@epa.gov>
Subject: FW: May 19 Site Status
Importance: High

Hi Lynda, thanks for the note and questions.

Dave and Marc, refer to the note from Lynda below and:

1) Request Copper address the below noted question regarding the Aspen Seep System

2) AMECFW - please provide a response to the question regarding "SD-39" (photograph attached)

Please provide answers to the questions as soon as possible. Additionally, lets ensure answers to the questions are memorialized in the monthly report that will be provided to EPA in early June. As the monthly report is also provided to the wider group of agencies and stakeholders – all these folks will also stay informed.

Lastly and point forward, when EPA, EPA technical team members, EPA oversight personnel, CA RWQCB personnel and/or stakeholders visit Leviathan (and those persons request AR participation or support with the visit) – please have staff members available to walk areas of interest, answer questions and note action items for follow up - to help clarify observations and site conditions on the spot.

P.S. The photograph of Stake SD-39 is super interesting – someone mentioned this week in Sacramento the survey teams had found, staked and labeled a number of new springs which have "appeared" this year at Leviathan. Suggest it may be helpful to have a map produced ASAP of all the new points where the RI FS survey team has found new surface water sources and maybe even have a call with EPA to summarize these new observations. A call would also give EPA the opportunity to quickly digest these new observations and provide input on data they feel are important to gather and have special focus. Additionally, I assume as part of the water balance study and site conceptual model work that the RI FS team will continue to monitor these flows throughout the year - as I assume these new water sources may quickly (or slowly) dry up and/or dissipate. Thanks for following up on all of these items as quickly as possible.

Anthony R Brown

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From: Deschambault, Lynda [mailto:Deschambault.Lynda@epa.gov]
Sent: Friday, May 26, 2017 6:13 PM
To: Brown, Anthony R (RM)
Cc: Lombardi, Marc (marc.lombardi@amecfw.com)
Subject: May 19 Site Status

Hello Tony,

Two issues that I didn't get a chance to raise on our call today:

During our May 19 visit to the site, a couple observations raised some questions that perhaps ARC can answer / address:

- the recirculation line at the Aspen Seep pre-treatment pond did not appear to be flowing based on lack of visible discharge to the pre-treatment pond. Could you clarify if the ASBR is operating in recirculation mode?

- he attached photo (6233) shows a pipe labeled as SD-39 that is discharging water freely at the site. It has a label, and wondering if you have data and/or information on where the water is coming from

Best Regards,

Lynda Deschambault

Environmental Scientist

USEPA Region 09

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