To: Sanchez, Yolanda[Sanchez.Yolanda@epa.gov]
Cc: Deschambault, Lynda[Deschambault.Lynda@epa.gov]; Brown, Anthony R (RM)[anthony.brown@bp.com]
From: Lombardi, Marc
Sent: Tue 1/31/2017 7:08:16 PM
Subject: RE: Photos and spreadsheet (email 3 of 4)
05_Sonde data2017_NBlack.pdf
03_170124 Final 2017 TAC Presentation_ARC Ops.pdf
04_Leviathan TAC 2017 Herbst.pdf
06_Break Slide.pdf

Yolanda,

We had some last minute changes as well as the LRWQCB so I'll forward to you the final presentations used in the meeting/Webinar just to be sure. Due to file size it will take 4 emails. The leading numbers on the file name represent the agenda order.

Attached is the Annual Technical Summary Meeting Presentation #'s 3, 4, 5, and 6.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

10940 White Rock Road, Suite 190, Rancho Cordova, CA 95670, USA

D (916) 853-8903 M (916) 302-6326

marc.lombardi@amecfw.com amecfw.com

From: Sanchez, Yolanda [mailto:Sanchez.Yolanda@epa.gov]
Sent: Tuesday, January 31, 2017 10:44 AM
To: Lombardi, Marc <Marc.Lombardi@amecfw.com>
Cc: Deschambault, Lynda <Deschambault.Lynda@epa.gov>
Subject: FW: Photos and spreadsheet

Marc,

Were these the "final" presentations used on 1/26/2017? I'm trying to pull together the materials for the record and the website.

Thank you for your stellar webinar help last week, too. Did we happen to get a list of who participated on the Webinar?

Best,

Yolanda Anita Sanchez, MS, MPA

US Environmental Protection Agency || Region 9 || **Superfund Division** || Community Involvement

Desk: 415-972-3880

"Start where you are. Use what you have. Do what you can." - Arthur Ashe

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Wednesday, January 18, 2017 2:56 PM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Sanchez, Yolanda <Sanchez.Yolanda@epa.gov>; Jefferson, Jill <Jill.Jefferson@amecfw.com>; Mike Johnson <mike.johnson@copperenv.com>
Subject: RE: Photos and spreadsheet

Lynda –

On behalf of Atlantic Richfield, attached for your use are:

1. Suggested revisions to draft agenda
2. Presentation for Treatment System Operation Summary (Copper Environmental)
3. Presentation for 2016 RI/FS Summary (Amec Foster Wheeler)
4. Photographs of fish and plant sampling conducted in 2016 (sending separately due to file size constraints)

Note the metals removal information for the HDS Plant and the Aspen Seep Bioreactor are provided on Slide 12 and Slide 21, respectively, in Copper's presentation.

If you have any questions or comments please contact Tony Brown at (714) 228-6770 or anthony.brown@bp.com<mailto:anthony.brown@bp.com>.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

10940 White Rock Road, Suite 190, Rancho Cordova, CA 95670, USA

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marc.lombardi@amecfw.com amecfw.com

From: Deschambault, Lynda [mailto:Deschambault.Lynda@epa.gov]
Sent: Wednesday, January 18, 2017 8:48 AM
To: Lombardi, Marc <Marc.Lombardi@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Sanchez, Yolanda <Sanchez.Yolanda@epa.gov>
Subject: FW: Photos and spreadsheet

Thanks for the meeting yesterday!

As discussed, please please get us the ppt, photos and treatment summary numbers?

We have a one page handout/fact sheet that needs those items…and it needs to get finalized….and go to print asap…for our meeting next week

Thanks!

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Thursday, January 12, 2017 8:57 PM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Jefferson, Jill <Jill.Jefferson@amecfw.com>; Adam Cohen (adam.cohen@dgslaw.com) <adam.cohen@dgslaw.com>
Subject: RE: Photos and spreadsheet

Lynda,

Atlantic Richfield needs a few additional days to finish preparation and internal review of our presentation for the Annual Technical Summary meeting. We will provide you our presentation by the end of the day on Monday, January 16. We will also provide the requested photographs at the same time. We look forward to the meeting on January 26 in Carson City.

If you have any other questions or comments please contact Tony Brown at (714) 228-6770 or anthony.brown@bp.com<mailto:anthony.brown@bp.com>.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

Principal Geologist / Office Manager, Environment & Infrastructure Americas, Amec Foster Wheeler

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From: Deschambault, Lynda [mailto:Deschambault.Lynda@epa.gov]
Sent: Wednesday, January 11, 2017 10:29 AM
To: Brown, Anthony R (RM) <anthony.brown@bp.com>; Lombardi, Marc <Marc.Lombardi@amecfw.com>
Cc: Doug Carey <douglas.carey@waterboards.ca.gov>; Sanchez, Yolanda <Sanchez.Yolanda@epa.gov>
Subject: FW: Photos and spreadsheet

Thank you doug!

Tony, could we get a similar treatment summary from ARC? Our draft timeline has been put together, but we are waiting for the ARC numbers.

And pictures of fish or plant sampling would be much appreciated as well!

Lynda

From: Carey, Douglas@Waterboards [mailto:douglas.carey@waterboards.ca.gov]
Sent: Thursday, December 29, 2016 7:03 AM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Sanchez, Yolanda <Sanchez.Yolanda@epa.gov>; Byres.Jan@epa.gov
Cc: Stetler, Chris@Waterboards <Chris.Stetler@waterboards.ca.gov>; gr@burlesonconsulting.com; Zentner, Taylor@Waterboards <taylor.zentner@waterboards.ca.gov>; Riley, Gary <riley.gary@epa.gov>

Subject: Photos and spreadsheet

Hi Lynda, Yolanda and Jan,

As requested, attached are a few Leviathan photos and a short description of each:

LMP_00462 – Leviathan Creek channel ~ June 1983, pre PAP, looking upstream

LMP_00437 – Installation of the twin 72-inch pipeline to convey Leviathan Creek through the site, looking upstream ~late summer 1983

LMP_00552 – Pit area during construction of the PAP ~1984

150730TZ 177 – Similar vantage point in the Pit, July 2015, showing the results of revegetation efforts

LMP_00257 – Pond 2 North and 2 South during construction of the PAP ~1984

150730TZ 071 – Pond 2 North and 2 South, July 2015, showing the results of revegetation efforts

LMP_00633 – Early lime treatment pond berm breach, November 1959 - Anaconda's rudimentary lime treatment system, current Pond 4 location

LMP_00634 – Dead fish near Ruhenstroth dam associated with the November 1959 release - November 23, 1959

Page 22, lower right corner, of the following link has a short article with several photos from a 1935 issue of Popular Science (the only pre 1950 photo we have of Leviathan)
https://books.google.com/books?id=tSkDAAAAMBAJ&pg=PA22&lpg=PA22&dq=popular+science+leviathan-iKYi9iwKik4GYBg#v=onepage&q&f=true

Also attached is a spreadsheet with tabs that detail the volume of water treated each year by the Water Board's Pond Water Treatment plant and the approximate amount of a select group of metals removed each year.

As mentioned previously, we don't have RI/FS plant or fish sampling photos. Those would be more aligned with Atlantic Richfield's undertakings.

If you have any questions or comments please let me know.

Douglas Carey, P.G.

Senior Engineering Geologist

Leviathan Mine

Regional Water Quality Control Board, Lahontan Region

2501 Lake Tahoe Blvd.

South Lake Tahoe, CA 96150

(530) 542-5468

douglas.carey@waterboards.ca.gov

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