To: DCarey@waterboards.ca.gov[DCarey@waterboards.ca.gov]
Cc: Deschambault, Lynda[Deschambault.Lynda@epa.gov]; Chris Stetler (chris.stetler@waterboards.ca.gov)[chris.stetler@waterboards.ca.gov]; Zentner, Taylor@Waterboards[taylor.zentner@waterboards.ca.gov]; Greg Reller[gr@burlesonconsulting.com]; Koger, Cory S SPK[Cory.S.Koger@usace.army.mil]; Ferguson, Scott@Waterboards[scott.ferguson@waterboards.ca.gov]; Brown, Anthony R (RM)[anthony.brown@bp.com]; Cohen, Adam[Adam.Cohen@dgslaw.com]; Jefferson, Jill[Jill.Jefferson@amecfw.com]; Riley, Gary[riley.gary@epa.gov]
From: Lombardi, Marc
Sent: Fri 6/16/2017 1:10:54 AM
Subject: RE: Leviathan Spring Treatment Operations and soil slump adjacent to Pond 4

Team,

I realized that the SharePoint folder noted below may not be accessible to all. Therefore, we have moved the files to the following location:

Click here to directly access the folder where these folders/documents are stored. Click on the links below to access each folder/document individually:

Title	Folder/File
170525 LRWQCB Data Request	170525 LRWQCB Data Request

Please let me know if you have any questions.

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: Lombardi, Marc
Sent: Thursday, June 15, 2017 5:29 PM
To: DCarey@waterboards.ca.gov
Cc: Lynda Deschambault (deschambault.lynda@epa.gov) <deschambault.lynda@epa.gov>; Chris Stetler (chris.stetler@waterboards.ca.gov) <chris.stetler@waterboards.ca.gov>; 'Zentner, Taylor@Waterboards' <taylor.zentner@waterboards.ca.gov>; 'Greg Reller' <gr@burlesonconsulting.com>; 'Koger, Cory S SPK' <Cory.S.Koger@usace.army.mil>; Ferguson, Scott@Waterboards <scott.ferguson@waterboards.ca.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>; Cohen, Adam <Adam.Cohen@dgslaw.com>; Jefferson, Jill <Jill.Jefferson@amecfw.com>
Subject: RE: Leviathan Spring Treatment Operations and soil slump adjacent to Pond 4

Doug,

On behalf of Atlantic Richfield, Amec Foster Wheeler has assembled a data package in response to the Water Board request for data in the vicinity of the soil slump adjacent to Pond 4. Because of the expedited nature of the request for information, this data package is a combination of existing data and newly measured water levels for the list of piezometers and monitoring wells selected by the Water Board. Because the RI/FS is ongoing, all data are preliminary in nature.

We have uploaded the data package to the Leviathan Mine SharePoint Site – LRWQCB Document Review folder. Click on the link below to access the folder::

Title	Folder/File
170525 LRWQCB Data Request	170525 LRWQCB Data Request

The data uploaded to the project SharePoint folder consists of two zipped files:

1. **170525 RWQCB data transf – 1.zip** contains recent water level data for the locations requested. Note that the requested location PZ-39 is not located near Pond 4 but is located on the dividing dike between Pond 2N and Pond 2S. We included recent water level data for PZ-38 which is in the vicinity of Pond 4.

2. **170525 RWQCB data transf – 2.zip** contains two CADD files with topographic information that covers the Pond 4 area.

Please note that there also are several text files with metadata. The information is summarized below:

- **Readme.txt** states that the data associated with this file transfer are preliminary because data collection, analysis, and interpretation is ongoing. The ongoing nature of the project, and the evolving knowledge of site conditions, must be considered when evaluating these data because subsequent facts may become known that may make interpretations premature or inaccurate.
- **Readme well const.txt** identifies that the file Table 6-1 const.pdf is Table 6-1 from the Groundwater Technical Data Summary Report, version No. 2 dated January 25, 2017
- **Readme topo georef.txt** provides the horizontal and vertical datum coordinate systems for the topographic CADD files.
- **Readme waterlvls.txt** states that quality control review of the water level data associated with this file transfer has not been completed. The data are therefore preliminary and subject to change.

The Topo Maps Folder contains both CAD files and PDF versions of those files.

Should you have any questions or comments please contact Tony Brown at (657) 529-4537 or 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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marc.lombardi@amecfw.com amecfw.com

From: Carey, Douglas@Waterboards [mailto:douglas.carey@waterboards.ca.gov]
Sent: Thursday, May 25, 2017 8:25 AM
To: Deschambault, Lynda; Brown, Anthony R (RM)
Cc: Stetler, Chris@Waterboards; Zentner, Taylor@Waterboards; Greg Reller; Cory Koger; Ferguson, Scott@Waterboards
Subject: Leviathan Spring Treatment Operations and soil slump adjacent to Pond 4

Lynda and Tony,

Water Board staff is working with our spring treatment operator, TKT, on firming up the date when 2017 spring treatment operations will end. That date still appears to be a week or two away. Water Board staff is also working with TKT to identify options for efficiently transferring water contained in the upper ponds to Pond 4, via Pond 3, if needed, without impacting residual treated water and sludge contained in Pond 3. It will be more effective to transfer upper pond water to Pond 4 only after TKT has completed their operations so the Pond 3 overflow plumbing can be directed to Pond 4. Attempting the transfer of upper pond water to Pond 4, via Pond 3, prior to the completion of spring treatment operations would be challenging, and labor intensive, as all temporary plumbing currently in use by TKT for discharge to Leviathan Creek would require removal and reinstallation for each batch of treated water discharged out of Pond 3. TKT currently discharges out of Pond 3 every two to three days.

Water Board's seasonal pond water treatment contractor, AECOM, is refining a proposal for temporary repairs to the soil slump adjacent to Pond 4 following an additional visit to the site by AECOM engineering on May 24, 2017. Repairs to the slump will allow equipment and supplies needed for initiating pond water treatment operations adjacent to Pond 1 to be delivered to upper pond water treatment in an expeditious manner. The AECOM proposal is expected to be delivered to Water Board staff this week. AECOM's proposal will be provided to USEPA and Atlantic Richfield as soon as it is available.

While onsite May 24, 2017, AECOM's engineers requested boring logs and well completion diagrams for the following wells and piezometers:

MW-10S

MW-10D

MW-18

PZ-36

PZ-35

PZ-39

MW-13

MW-14

MW-9

AECOM engineers also requested any recent depth to water information for these wells/piezometers and any topo maps of the Pond 4 slump area in CAD format.

Can USEPA and Atlantic Richfield Company assist in providing the information requested above?

Please let me know if you have any questions,

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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