To: Brown, Anthony R (RM)[anthony.brown@bp.com]; Lombardi, Marc (marc.lombardi@amecfw.com)[marc.lombardi@amecfw.com]
Cc: Greg Reller[gr@burlesonconsulting.com]; Cory Koger[Cory.S.Koger@usace.army.mil]
From: Deschambault, Lynda
Sent: Tue 6/6/2017 4:38:46 PM
Subject: RE: Leviathan Mine - RIFS work Remaining. Schedule.

Good morning Tony/Marc

I was reviewing past schedules /deliverables alongside notes from our last meetings(s)

Could you please confirm that the deliverables indicated below in pink; are to be included in the December 31, 2017 Site Characterization report?

Thanks!

	06/30/19	06/30/19	On-Property, Off-Property, and Reference	NA	Atlantic Richfield	US EPA	Final RI/FS Report
	12/31/18	12/31/18	On-Property, Off-Property, and Reference	NA	Atlantic Richfield	US EPA	Draft RI/FS Report
	06/31/18	06/31/18	On-Property, Off-Property, and Reference	NA	Atlantic Richfield	US EPA	RI Report
	12/31/17	12/31/17	On-Property, Off-Property, and Reference	NA	Atlantic Richfield	US EPA	Site Characterization Report

~~90 days after completion of field work~~		~~SSA~~	~~River Ranch~~	~~Atlantic Richfield~~	~~US EPA~~	~~River Ranch Technical Data Summary Report~~
~~NA~~		~~On Property~~	~~Water Balance~~	~~Atlantic Richfield~~	~~US EPA~~	~~Water Balance Technical Data Summary Report through 2015]~~
~~NA~~		~~On Property / Off Property~~	~~Plants~~	~~Atlantic Richfield~~	~~US EPA~~	~~Plant Tissue/Soil Technical Data Summary Repor through 2015]~~
~~NA~~		~~On Property~~	~~Storm Water~~	~~Atlantic Richfield~~	~~US EPA~~	~~Storm Water and Snowmelt Runoff Technical Da Summary Report [data through 2015]~~
~~09/11/16~~		~~On Property~~	~~Amendment 10~~	~~Atlantic Richfield~~	~~US EPA~~	~~Beaver Dam / Pond Complex Technical Data Su Report [data through 2015]~~
~~Within 90 days of completion of field work~~	~~Q2 2017~~	~~On Property / Off Property~~	~~Fish~~	~~Atlantic Richfield~~	~~US EPA~~	~~Fish Surveys & Tissue Technical Data Summary Report (2016 Data)~~

Also. the annual NHPA for 2016---

ARC indicates completion May 30, 2017; let us know status for submission.

05/30/17	NHPA	Addendum No. 4	Atlantic Richfield	US EPA	Humboldt-Toiyabe National Forest, Cultural Resources Narrative Report for the Leviathan Mine Site Cultural Resources Inventory, Addendum No. 4 - Cultural Resources Monitoring Report for 2016 [Draft]	In pr

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Tuesday, February 28, 2017 4:13 PM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Shaffer, Caleb <Shaffer.Caleb@epa.gov>; Wirtschafter, Joshua <Wirtschafter.Joshua@epa.gov>; Riley, Gary <riley.gary@epa.gov>; Barton, Dana <Barton.Dana@epa.gov>; Cohen, Adam <Adam.Cohen@dgslaw.com>; Sandy Riese <sriese@ensci-inc.com>; Halsey, Ronald H <ronald.halsey@bp.com>; Jefferson, Jill

<Jill.Jefferson@amecfw.com>; Grant Ohland - (gohland@ohlandhydrogeo.com) <gohland@ohlandhydrogeo.com>
Subject: RE: Leviathan Mine - RIFS work Remaining. Schedule.

Lynda,

On behalf of Atlantic Richfield, Amec Foster Wheeler is providing the U.S. EPA with the complete PowerPoint Presentation form our December 13, 2016 Quarterly Technical Meeting and the updated document tracking spreadsheet.

If you have any questions or comments, please contact Tony Brown at (657) 529-4573 or 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: Friday, February 17, 2017 2:31 PM
To: Lombardi, Marc <Marc.Lombardi@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Shaffer, Caleb <Shaffer.Caleb@epa.gov>; Wirtschafter, Joshua <Wirtschafter.Joshua@epa.gov>; Riley, Gary <riley.gary@epa.gov>; Barton, Dana <Barton.Dana@epa.gov>; Cohen, Adam <Adam.Cohen@dgslaw.com>; Sandy Riese <sriese@ensci-inc.com>; Halsey, Ronald H <ronald.halsey@bp.com>

Subject: RE: Leviathan Mine - RIFS work Remaining. Schedule.

Thanks Marc, have you provided the full ppt from 12/13/16?

And as requested, please add any remaining workplan documents anticipated and their status--- or anticipated delivery date --to this master list? thanks

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Thursday, February 16, 2017 12:10 PM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Shaffer, Caleb <Shaffer.Caleb@epa.gov>; Wirtschafter, Joshua <Wirtschafter.Joshua@epa.gov>; Riley, Gary <riley.gary@epa.gov>; Barton, Dana <Barton.Dana@epa.gov>; Cohen, Adam <Adam.Cohen@dgslaw.com>; Sandy Riese <sriese@ensci-inc.com>; Halsey, Ronald H <ronald.halsey@bp.com>
Subject: RE: Leviathan Mine - RIFS work Remaining. Schedule.

Lynda,

On behalf of Atlantic Richfield, Amec Foster Wheeler is providing the U.S. EPA with the attached excerpts from the presentation slides discussed during our December 13, 2016 meeting which outline the status of field activities conducted during the 2016 field season and those anticipated to be conducted in 2017.

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

Thanks,

Marc

Marc R. Lombardi, CEM, PG

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marc.lombardi@amecfw.com amecfw.com

From: Deschambault, Lynda [mailto:Deschambault.Lynda@epa.gov]
Sent: Wednesday, February 08, 2017 10:18 AM
To: Lombardi, Marc <Marc.Lombardi@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Doug Carey <douglas.carey@waterboards.ca.gov>; Shaffer, Caleb <Shaffer.Caleb@epa.gov>; Wirtschafter, Joshua <Wirtschafter.Joshua@epa.gov>; Riley, Gary <riley.gary@epa.gov>; Serda, Sophia <Serda.Sophia@epa.gov>; Black, Ned <Black.Ned@epa.gov>; Hillenbrand, John <Hillenbrand.John@epa.gov>; Barton, Dana <Barton.Dana@epa.gov>
Subject: RE: Leviathan Mine - RIFS work Remaining. Schedule.

Dear Mr. Brown,

Dana notes that Ron Halsey discussed ARC plans submittal of additional work plans.

Could you please confirm your response, and provide a full and complete written summary of remaining work as outlined in my October and December emails?

Thanks!

Lynda

From: Deschambault, Lynda
Sent: Thursday, December 01, 2016 11:04 AM

To: 'Lombardi, Marc' <Marc.Lombardi@amecfw.com>; 'Brown, Anthony R (RM)' <anthony.brown@bp.com>
Cc: 'Greg Reller' <gr@burlesonconsulting.com>; 'Cory Koger' <Cory.S.Koger@usace.army.mil>; 'Doug Carey' <douglas.carey@waterboards.ca.gov>; Shaffer, Caleb <Shaffer.Caleb@epa.gov>; Wirtschafter, Joshua <Wirtschafter.Joshua@epa.gov>; Gary Riley <Riley.Gary@epa.gov>; Serda, Sophia <Serda.Sophia@epa.gov>; Black, Ned <Black.Ned@epa.gov>; Hillenbrand, John <Hillenbrand.John@epa.gov>
Subject: RE: Leviathan Mine - RIFS work Remaining. Schedule.

Dear Mr. Brown,

Per the October 31 email below, EPA requested by November 30, 2016---a written summary of any remaining field work that EPA requested for the 2016 season.

This should include

•□□□□□□□□ The List of work that EPA requested that still remains (i.e. geotechnical…hydrocarbon…)

•□□□□□□□□ a list of additional (not yet agreed to) additional work and TSAPs that ARC is putting together.

i.e. preliminary in vitro bioaccessibility testing on select existing floodplain soil samples; Supplemental Plant Data Collection; investigation in the beaver dam area?

Data collected without approved risk assessment data quality objects (DQOs) will not be used for the RI risk assessment. Please ensure EPA approved Risk Assessment workplans are followed.

Additional investigation beyond that being completed under the current approved RI/FS work plans may not be necessary and risks delaying completion of the RI/FS.

EPA is not opposed to work for refining the proposed or selected long term remedy. The schedule should clarify those items as post RI/FS or Remedial Design.

EPA is preparing comments on the RI/FS schedule and reporting ---and looks forward to discussion at our upcoming meeting scheduled for 1:30 on December 13th.

Lynda

From: Deschambault, Lynda
Sent: Tuesday, November 01, 2016 8:21 AM
To: 'Lombardi, Marc' <Marc.Lombardi@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Doug Carey <douglas.carey@waterboards.ca.gov>; Jones, Britt <Britt.Jones@amecfw.com>; Jefferson, Jill <Jill.Jefferson@amecfw.com>
Subject: RE: Leviathan Mine - RIFS Three-Week Field Schedule Projection 10-31-16 through 11-11-16

Thanks for the quick response and update!

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Monday, October 31, 2016 1:56 PM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Doug Carey <douglas.carey@waterboards.ca.gov>; Jones, Britt <Britt.Jones@amecfw.com>; Jefferson, Jill <Jill.Jefferson@amecfw.com>
Subject: RE: Leviathan Mine - RIFS Three-Week Field Schedule Projection 10-31-16 through 11-11-16

Lynda,

Yes, as of right now the projected schedule with the last day of field work being November 11th includes completing the deeper soil sampling at River Ranch, collecting the remaining suspected ore pile and ore pile reference samples, the downstream surface water samples, etc. This schedule projection is contingent on having continued good weather and safe working conditions. We are not working in the field today due to adverse site conditions which resulted from the weather system that passed through area over the weekend and the longer term forecast calls for continued unsettled weather, thus we may not be able to complete all of our planned tasks by the 11th. In

the event that we do not finish by the 11th, and so long as we have acceptable weather and safe site working conditions, our field crews are holding the week of the 14th open as a contingency to complete planned field work. We will provide a schedule update at the beginning of next week. We should be able to provide a written summary of 2016 planned field work that still remains within 30-days of our completion of our 2016 field activities.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

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

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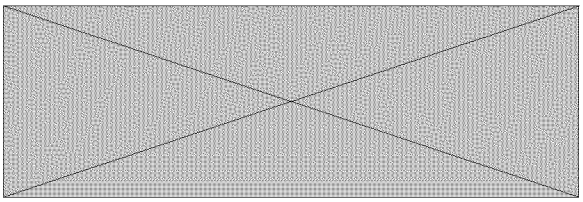

From: Deschambault, Lynda [mailto:Deschambault.Lynda@epa.gov]
Sent: Monday, October 31, 2016 7:58 AM
To: Lombardi, Marc <Marc.Lombardi@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>
Cc: Greg Reller <gr@burlesonconsulting.com>; Cory Koger <Cory.S.Koger@usace.army.mil>; Doug Carey <douglas.carey@waterboards.ca.gov>
Subject: RE: Leviathan Mine - RIFS Three-Week Field Schedule Projection 10-31-16 through 11-11-16

Thanks Marc,

It's been a busy season! Does the last day of field work November 11th include River ranch and off property et al as well? As you Demobilize the last drill rig from the site, and wrap things up, Within 30 days or November 30, 2016, could you please provide EPA with a written summary of field work that EPA requested for the 2016 season that still remains.

Best Regards,

Lynda Deschambault

Environmental Scientist

USEPA Region 09

(415) 947-4183

Please be advised I may have limited access to email , therefore please be patient with any communication delays.

From: Lombardi, Marc [mailto:Marc.Lombardi@amecfw.com]
Sent: Friday, October 28, 2016 6:30 PM
To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Riley, Gary <riley.gary@epa.gov>
Cc: Brown, Anthony R (RM) <anthony.brown@bp.com>; Greg Reller <gr@burlesonconsulting.com>; Koger, Cory S SPK <Cory.S.Koger@usace.army.mil>; Delaney, Douglas SPK <Douglas.J.Delaney@usace.army.mil>; Carey, Douglas@Waterboards <douglas.carey@waterboards.ca.gov>; Stetler, Chris@waterboards.ca.gov <Chris.Stetler@waterboards.ca.gov>; Zentner, Taylor@Waterboards <taylor.zentner@waterboards.ca.gov>; Brown, Anthony R (RM) <anthony.brown@bp.com>; Cohen, Adam <Adam.Cohen@dgslaw.com>; Sandy Riese <sriese@ensci-inc.com>; Dave McCarthy <dave.mccarthy@copperenv.com>; Jones, Britt <Britt.Jones@amecfw.com>; Jefferson, Jill <Jill.Jefferson@amecfw.com>; phil thompson <philthompson705@gmail.com>; Parrish, Kent <Kent.Parrish@amecfw.com>; jboucher@broadbentinc.com;

andy.slavik@copperenv.com; Abby Cazier <abby.cazier@copperenv.com>; Lombardi, Lynda <Lynda.Lombardi@amecfw.com>; Floyd, Larry W. <Larry.Floyd@amecfw.com>; Grant Ohland - (gohland@ohlandhydrogeo.com) <gohland@ohlandhydrogeo.com>
Subject: Leviathan Mine - RIFS Three-Week Field Schedule Projection 10-31-16 through 11-11-16

Lynda/Gary,

The following is Atlantic Richfield's updated three week schedule projection for Remedial Investigation/Feasibility Study (RI/FS) activities at the Leviathan Mine.

Week of 10/31/16

- Monday through Friday – Demobilize the last drill rig from the site along with remaining drilling materials and equipment.
- Monday through Wednesday – Continue the fall On-Property synoptic surface water flow measurement and sampling event.
- Monday through Wednesday – Install fencing around the three revegetation plots.
- Monday through Friday – Continue to download transducers from select monitoring wells and piezometers and install new transducers in select monitoring wells, drive point piezometers, and piezometers for the groundwater and groundwater/surface water interaction investigations.
- Monday – Collect storm water samples from the automatic storm water stations installed in Aspen and Leviathan Creeks.
- Tuesday through Thursday – Winterize the four storm water auto-samplers and the Evaporation Pan.
- Monday through Friday – Collect monthly groundwater samples from the Reference Area monitoring wells installed in 2016.
- Wednesday and Thursday – Collect surface water samples from the five sources.
- Thursday – Continue surveying the monitoring wells installed in 2016.
- Wednesday through Friday – Collect the fall Downstream Study Area synoptic surface water flow measurements and samples.

Week of 11/7/16 (Projected to be the last Week of 2016 Field Work)

- Monday through Friday – Continue collecting monthly groundwater samples from the Reference Area monitoring wells installed in 2016.
- Monday through Friday – Collect the deeper soil samples from River Ranch.
- Monday through Friday – Begin measuring flow and collecting surface water samples in lower Bryant Creek (Off-Property Addendum No.3).
- Monday – Complete the monthly inspection and downloading of data from the CUD and OS weirs.
- Monday – Download the data from the meteorological station.
- Monday – Measure water levels in monitoring wells and piezometers without transducers installed.

- Thursday and Friday – Collect soil samples from Ore Pile #1, pending permission from the property owner to collect samples on their property.

Week of 11/14/16

- No field work currently scheduled. Pending inclement weather days and safe working conditions the last day of field work for 2016 is scheduled to be November 11.

Please note: this schedule is subject to change based on the actual field implementation time, weather conditions, and contractor availability that may cause delays.

Should you have any questions or comments please contact Tony Brown at (714) 228-6770 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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