

May 16, 2017

Special Master Susan Calkins  
2112 Promontory Point Lane  
Gold River, CA 95670



**Subject: Monthly Status Report 16 for May 2017  
Penobscot River Estuary Phase III - Engineering Study**

Dear Ms. Calkins:

Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) is pleased to submit this monthly Status Report for the Penobscot River Estuary Phase III - Engineering Study. This report covers the period from April 1, 2017 through April 30, 2017. A cash flow projection for the following 6-month period is also attached.

**ACTIVITIES AND EVENTS DURING THE REPORTING PERIOD**

Task 1 - Understanding the Problem and Existing Background Information

- No activities were conducted under this task during the reporting period.
- All activities under this task are 100% complete and no further charges are anticipated.

Tasks 2/2A - Technologies and Remedial Approaches for Consideration

- *Work Order 2A-010 - Technology Screening Report: Report Revisions*
  - No activities were conducted under this task during the reporting period.
  - All activities under this task are 100% complete and no further charges are anticipated.
- *Work Order 2A-020 - Treatability/Pilot Studies: Scoping Memorandum*
  - Comments received from the Litigants have been reviewed and will be included for consideration in development of the Bench-scale Treatability Work Plans under WO 2A-030A
  - All activities under this task are 100% complete and no further charges are anticipated.
- *Work Order 2A-030A - Bench-Scale/Pilot Studies: Phase 1 Work Plans - Bench Scale & Pilot-Scale Constructability*
  - April 3, 2017: Amec Foster Wheeler received authorization to proceed on WO 2A-030A from the Court
  - Development of Work Plans was initiated in April 2017
- *Work Order 2A-080 – Alternatives Evaluation Report*
  - April 3, 2017: Amec Foster Wheeler received authorization to proceed on WO 2A-080 from the Court
  - Development of Alternatives Analysis Report initiated in April 2017

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- *Work Order 2A-100 – Hydrodynamic Modeling*
  - April 12, 2017: Amec Foster Wheeler submitted WO 2A-100 to the SM/Litigants for review and comment
  - April 20, 2017: Amec Foster Wheeler received comments from NRDC on WO 2A-100
  - April 21, 2017: Amec Foster Wheeler received comments from Mallinckrodt on WO 2A-100

#### Tasks 3/3A - Risk Reduction Evaluation

- *Work Order 3A-010 - BAFs/BSAFs, Biota Trending Analysis:*
  - Work on BAF/BSAF calculations and biota trending analyses continued in April 2017
- *Work Order 3A-020 – Baseline Risk Assessments:*
  - Work on baseline risk assessments continued in April 2017

#### Tasks 4/4A - Potential Data Needs and Additional Field Work

- *Work Orders 003/003A - Mobile Sediment Pool Characterization:*
  - Project analytical database prepared for forthcoming submittal to the project SharePoint site
  - The remaining scope of WOs 003/003A is expected to be completed within budget
- *Work Order 004 - 2016 Sediment and Water Quality Monitoring:*
  - April 18, 2017: comments from NRDC regarding the Draft 2016 Sediment and Water Quality Monitoring Report received by Amec Foster Wheeler
- *Work Order 005 - 2016 Biota Monitoring:*
  - April 3, 2017: Amec Foster Wheeler received authorization to proceed on WO 005B from the Court
  - Development of the Draft 2016 Biota Monitoring Report continued in April 2017
  - At the current time, the remaining scope of WO 005 is expected to be completed within budget
- *Work Order 4A-010 - Analytical Methods Evaluation and OC Study (formerly Work Order 012):*
  - Work continued on the Analytical Methods Development and Comparison Study, including development of a draft technical memorandum
  - Continued development and refinement of the Conceptual Site Model for the project
- *Work Order 4A-020 - Analyses/Evaluation of WO 003A Samples:*
  - Analysis of mobile pool sediments/wood debris and subtidal sediments collected in October 2016 continued in April 2017
  - Data validation of analytical results was initiated
  - Assessment of preliminary analytical results initiated in April 2017
- *Work Order 4A-040 – 2017 Sediment and Water Quality Monitoring:*
  - April 10, 2017: Amec Foster Wheeler submitted WO 4A-040 for 2017 Sediment and Water Quality Monitoring
  - April 12, 2017: Amec Foster Wheeler received authorization to proceed on WO 4A-040 from the Court

- The initial round of 2017 water quality monitoring was conducted at the OV-02 location just upriver of the former Veazie Dam
- *Work Order 4A-050 – 2017 Biota Monitoring:*
  - April 3, 2017: Amec Foster Wheeler received authorization to proceed on WO 4A-050 from the Court
  - Planning of the field schedule and staffing for 2017 biota monitoring were initiated

#### Tasks 6A – Meetings/Communications

- *Work Order 6A-010 - Meetings/Reporting: Nov 2016 thru July 2017*
  - April 3, 2017: Attended continuation of Monthly Project Status Call initiated on March 30, 2017
  - April 7, 2017: Amec Foster Wheeler submitted meeting minutes to the Special Master/Litigants for the March 30 and April 3, 2017 Monthly Project Status Call
  - April 23, 2017: Amec Foster Wheeler submitted Invoice # J02206613 and Monthly Report for the month of March 2017 to the Special Master/Litigants
  - Prepared for and attended April 24, 2017 Phase II Study Panel Meeting in Boston, MA
  - Prepared for and attended April 25, 2017 Quarterly Project Status Meeting with the Special Master/Litigants in Boston, MA
  - Prepared for May 10, 2017 meeting with ME DEP to discuss permitting issues

#### Task 7 – Community Involvement

- *Work Order 006 - Community Involvement:*
  - April 10, 2017: submitted markup of the website content based on feedback from the Litigants, as well as a proposed memo for community involvement engagement strategy
  - April 11, 2017: attended conference call with the SM/Litigants to discuss the Community Involvement website content based on feedback from the Litigants, as well as a proposed memo for community involvement engagement strategy
  - April 19, 2017: Amec Foster Wheeler posted the online Community Involvement survey for review by the SM/Litigants

### **PROPOSED ACTIVITIES FOR THE FOLLOWING PERIOD**

#### Tasks 2/2A - Technologies and Remedial Approaches for Consideration

- *Work Order 2A-030A - Phase 1 Bench-Scale Treatability Studies Work Plan*
  - Issue draft work plans to the SM/Litigants for review
- *Work Order 2A-040 - Permitting Support for Pilot-Scale Amendment Plots and Alternatives Evaluation:*
  - Pending authorization of the work order, begin discussions with federal and state agencies regarding permitting requirements for full-scale remedial alternatives
- *Work Order 2A-080 - Alternatives Evaluation*
  - Continue development of remedial alternatives
- *Work Order 2A-100: Recovery Times & Sediment(Hg) Transport*

- Pending work order authorization, initiate planning of field activities required to support hydrodynamic modeling

#### Task 3 - Risk Reduction Evaluation

- *Work Order 3A-010 – BAFs/BSAFs, Biota Trend Analyses:*
  - Continue development of BAFs/BSAFs, Biota Trend Analyses
- *Work Order 3A-020 – Baseline Risk Assessments:*
  - Continue development of baseline risk assessments

#### Task 4 - Potential Data Needs and Additional Field Work

- *Work Orders 003/003A - Mobile Sediment Pool Characterization:*
  - Submit updated project database and figures showing location of 2016 sediment samples collected by Amec Foster Wheeler
- *Work Order 004 – 2016 Sediment and Water Quality Monitoring:*
  - Pending receipt of Mallinckrodt comments, revise Draft 2016 Sediment and Water Quality Monitoring Report, and revise report as necessary
- *Work Order 005 – 2016 Biota Monitoring:*
  - Submit Draft 2016 Biota Monitoring Report to the SM/Litigants
- *Work Order 4A-010 - Analytical Methods Evaluation and OC Study (formerly Work Order 012):*
  - Prepare and submit Technical Memorandum regarding analytical methods development and comparison study
  - Continue to refine and update the CSM
- *Work Order 4A-020 - Analyses/Evaluation of WO 003A Samples:*
  - Prepare draft Technical Memorandum of results of mobile pool investigations conducted under WOs 003, 003A, and 4A-020
- *Work Order 4A-030 - Additional Marsh Platform Characterization:*
  - Submit work order proposing additional marsh platform characterization sampling for areas outside of those previously sampled
- *Work Order 4A-040 - 2017 Sediment & Water Quality Monitoring:*
  - Conduct second and third rounds of water quality monitoring following spring freshet
- *Work Order 4A-050 - 2017 Biota Monitoring*
  - Continue preparations/planning for bird monitoring to be conducted in June 2017
- *Work Order 4A-060 - Additional Mobile Pool Characterization*
  - Submit WO 4A-060 for additional mobile pool characterization to be conducted summer 2017
  - Scope will include geophysical investigations and sampling of mobile sediment pool to refine the size estimate of the mobile pool
- *Work Order 4A-070 - Additional Intertidal and Subtidal Sediment Characterization*
  - Prepare and submit WO 4A-070 for additional intertidal and subtidal sediment characterization to be conducted summer 2017
  - Scope will include coring in intertidal flats east of Verona Island and in the Orland River

Task 5 - Phase III Engineering Study Report

- No activities planned for the upcoming reporting period

Task 6A – Meetings/Communications

- Prepare and submit invoice, monthly report, cash flow projection, and updated project schedule for April 2017 to the Special Master/Litigants
- Submit meeting minutes for April 24, 2017 meeting with Phase II Study Panel members
- Submit meeting minutes for April 25, 2017 Quarterly Project Status Meeting with the Special Master/Litigants
- Prepare for and attend May 15, 2017 monthly project status call with SM/Litigants
- Submit meeting minutes for May 15, 2017 monthly project status call

Task 7 – Community Involvement

- Revise website based on Litigant comments
- Develop Community Involvement online survey for Special Master/Litigant review

**FUTURE MEETINGS, AND CONFERENCE CALLS**

- Quarterly Status Meetings with the Special Master and Litigants will be held in Boston, MA on the following dates:
  - July 20, 2017
- Monthly Project Status Calls will be held from 2-3PM (Eastern time) on the following dates:
  - June 15, 2017

### 3 MONTH LOOK-AHEAD PROJECT SCHEDULE

The schedule below provides an overview of significant dates for the next 3 months:

TASK	WORK ORDER	DATE
<b>2016 Sediment and Water Quality Monitoring Report</b>	<b>004</b>	
Issue Final 2016 Sediment and Water Quality Monitoring Report		Pending Receipt of Mallinckrodt Comments
<b>2016 Biota Monitoring Report</b>	<b>005</b>	
Submit Draft 2016 Biota Monitoring Report		5/26/2017
<b>Analytical Methods Evaluation</b>	<b>4A-010</b>	
Submit Draft Analytical Methods Evaluation Technical Memorandum		6/9/2017
<b>Analysis/Evaluation of WO 003A Samples</b>	<b>4A-020</b>	
Submit Draft Mobile Pool Characterization Technical Memorandum		6/30/2017
<b>BAF/BSAF and Biota Trending Analysis Report</b>	<b>3A-010</b>	
Submit Draft BAFs/BSAFs, Biota Trending Analysis Report to Court/Litigants		7/14/2017
<b>Meetings</b>	<b>6A-010</b>	
Monthly Progress Status Call - 2:00 PM		6/15/2017
Quarterly Status Meeting - 8:30 to 4:30		7/20/2017

If you have any questions regarding the information contained in this report, please call me at 207-651-0315.

Sincerely,



Nelson Walter, PE, LSP, LEP, PMP  
 Principal Project Manager

#### Attachments

Attachment A - Cash Flow Projection

cc: Mitchell Bernard (NRDC)      Patricia Duft (Mallinckrodt)  
 Jared Thompson (NRDC)      Jeffrey Talbert (Preti Flaherty)  
 Project File (3616166052)