

August 17, 2016

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



**Subject: Monthly Status Report 07 for July 2016
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 July 1, 2016 through July 31, 2016. Brief narratives of activities performed during this period, issues/problems identified during the period, proposed activities for the following period, as well as a cash flow projection for the following 6-month period are presented below.

ACTIVITIES AND EVENTS DURING THE REPORTING PERIOD

- July 1, 2016 – received permit for fish sampling from Maine DMR (Special License Number ME 2016-02-00)
- July 5, 2016 – received permits for Holtrachem site Landfill Ridge remediation project from Mallinckrodt
- July 5, 2016 – Amec Foster Wheeler submits resumes of personnel from our Human Environment Group to the Special Master
- July 5, 2016 – Amec Foster Wheeler submits revised criteria to be used in evaluating alternatives for remediation of the Penobscot River to more closely align with the Court Order
- July 5, 2016 – Amec Foster Wheeler notifies the Special Master that a formal meeting with several of the Phase II Study participants will not be conducted, and they will be contacted individually, as necessary
- July 6, 2016 – Amec Foster Wheeler met with Ms. Christine Lispky at the NOAA Northeast Fisheries Science Center - Maine Field Center in Orono, ME to discuss proposed fish sample collection as part of the 2016 Biota Monitoring
- July 7, 2016 – revised Communication and Community Involvement Scope of Work received from the Special Master
- July 7, 2016 – meeting held with Maine DEP Commissioner and staff in Portland, ME to discuss Amec Foster Wheeler's scope of work for the Engineering Study, and to review the 2014 Maine DMR lobster sampling analytical results
- July 11, 2016 – Amec Foster Wheeler holds teleconference with Maine DMR to discuss details of potential 2015 lobster sample analyses
- July 11, 2016 – Amec Foster Wheeler submits electronic copy of July 7, 2016 presentation to Maine DEP

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Monthly Status Report 07 for July 2016
Penobscot River Estuary Phase III - Engineering Study

- July 11, 2016 – Amec Foster Wheeler submits responses to NRDC comments on 2016 Biota Monitoring Plan to Special Master and Litigants
- July 12, 2016 – Amec Foster Wheeler submits draft agenda for July 21, 2016 Quarterly Status Meeting to Special Master and Litigants
- July 13, 2016 – Amec Foster Wheeler submits Work Order 004 – 2016 Sediment and Water Quality Monitoring and Work Order 005 – 2016 Biota Monitoring to the Special Master and Litigants
- July 13, 2016 – Amec Foster Wheeler submits the Technology Screening Report to the Special Master and Litigants
- July 18, 2016 – Amec Foster Wheeler submits notes from July 7, 2016 meeting with Maine DEP to the Special Master and Litigants
- July 18, 2016 – Conference call held between Amec Foster Wheeler, Special Master, and Litigants to discuss scope and costs of Work Order 005 – 2016 Biota Monitoring
- July 18, 2016 – Amec Foster Wheeler submits revised Work Order 005 – 2016 Biota Monitoring to the Special Master and Litigants
- July 18-19, 2016 – Amec Foster Wheeler conducts monthly water quality monitoring: collection of seven surface water samples in the river
- July 18-27, 2016 – Amec Foster Wheeler conducts biota monitoring for birds, spiders, insects, and polychaetes
- July 19, 2016 – Amec Foster Wheeler attends meeting with Maine DMR in Augusta, ME to discuss Amec Foster Wheeler's scope of work for the Engineering Study, to review the 2014 Maine DMR lobster sampling analytical results, and to discuss 2015 lobster and crab analyses
- July 20, 2016 – Amec Foster Wheeler submits Work Order 007 – 2015 Lobster and Crab Analysis to the Special Master and Litigants
- July 20, 2016 – Amec Foster Wheeler receives executed Work Orders 004 and 005 from Mallinckrodt
- July 20, 2016 – Maine DMR announces closure of an additional 5.5 square miles at the mouth of the Penobscot River (from Fort Point to western end of Cape Jellison) to lobster and crab fishing because of high levels of mercury
- July 21, 2016 – Quarterly Status Meeting held in Boston, MA with Special Master, Litigants, and Amec Foster Wheeler
- July 21, 2016 – Amec Foster Wheeler receives executed Work Order 007 from Mallinckrodt
- July 21, 2016 – Amec Foster Wheeler submits electronic copy of July 19, 2016 presentation to Maine DMR
- July 21, 2016 – Amec Foster Wheeler submits Work Order 006 – Community Involvement to the Special Master and Litigants
- July 21-22, 2016 – Amec Foster Wheeler collects 2015 lobster and crab samples from Maine DMR in Boothbay Harbor, ME and Maine DEP in Augusta, ME, and ships samples to Eurofins laboratory in Bothell, WA

Monthly Status Report 07 for July 2016
Penobscot River Estuary Phase III - Engineering Study

- July 22, 2016 – Amec Foster Wheeler submits notes on July 19, 2016 meeting with Maine DMR to the Special Master and Litigants
- July 22, 2016 – Amec Foster Wheeler submits Monthly Report for May 2016 submitted to Special Master and Litigants
- July 25, 2016 – Amec Foster Wheeler submits Invoice # J02205298 for the month of June 2016 and the July 2016 Monthly Report to the Special Master
- July 25-29, 2016 – Amec Foster Wheeler conducts sediment monitoring as detailed in the Sediment and Water Quality Monitoring Plan
- July 26, 2016 – Amec Foster Wheeler receives 2015 and 2016 Southern Cove analytical data from Mallinckrodt
- July 26, 2016 – Amec Foster Wheeler submits Quality Assurance Project Plan to Special Master and Litigants
- July 28, 2016 – Amec Foster Wheeler submits revised Work Order 006 – Community Involvement to the Special Master and Litigants
- July 29, 2016 – Amec Foster Wheeler submits an electronic copy of the slides presented at the July 21, 2016 Quarterly Status Meeting
- July 29, 2016 – Amec Foster Wheeler submits Field Sampling Plan to the Special Master and Litigants
- July 31, 2016 - Amec Foster Wheeler submits Sediment and Water Quality Monitoring Plan to the Special Master and Litigants
- Technical progress made during the reporting period:
 - Continued evaluation of remote sensing and analytical data from Work Order 003 - Remote Sensing & Geophysics field activities
 - Continued review of sediment remediation technologies
 - Continued development of preliminary conceptual site models for specific sections of the estuary, including Hg/MeHg distribution (horizontal and vertical), impacted receptors, and remedial goals
 - Data gap evaluation for information needed to assess remedial alternatives continued, based on Amec Foster Wheeler evaluation of existing data set
 - Continued evaluation of particle tracers/tracking for estimating the movement of the mobile sediment pool
 - Pursued access agreement for locating turbidity meter device on river bank near former Veazie Dam
 - Pursued access agreements with landowners of property upon which biota monitoring is scheduled
 - Conducted biota monitoring starting July 17, 2016
 - Prepared for July 7, 2016 meeting with ME DEP in Portland, Maine

ISSUES/PROBLEMS IDENTIFIED DURING THE REPORTING PERIOD

- Avian sampling conducted in July as part of the 2016 Biota Monitoring was unsuccessful at capturing red-wing blackbirds for blood samples. However, sufficient samples of Nelson's sparrow blood were obtained. The red-wing blackbirds appear to have had an early hatching season, and were relatively absent from the marshes of the river in late July.

PROPOSED ACTIVITES FOR THE FOLLOWING PERIOD

- Prepare and submit Work Order 003A to increase scope of Work Oder 003 for evaluation of mobile sediment pool
- Respond to comments from NRDC and Mallinckrodt on the Draft Technology Screening Report
- Prepare and submit Work Order(s) associated with additional sediment characterization
- Conduct eel sampling in accordance with Biota Monitoring Plan
- Conduct August 2016 water quality monitoring
- Install turbidity monitoring device near location of former Veazie Dam (upon obtaining access to property adjacent to the river)
- Prepare for September 2016 mobilization to the project site for fish sampling
- Submit meeting notes from July 21, 2016 Quarterly Status Meeting with Special Master and Litigants

SCHEDULE UPDATE AND FUTURE MEETINGS AND CONFERENCE CALLS

- August 17, 2016 – Meeting with MEDEP in Augusta, ME to discuss property access and permitting requirements for potential pilot-scale testing and remedial actions
- October 27, 2016 - Quarterly Meeting with Special Master, Litigants, and Amec Foster Wheeler, Boston, MA

CASH FLOW PROJECTION

Please refer to Attachment A for the Amec Foster Wheeler financial status summary and cash flow projection for the next six months.

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)