

Work Order	2A-055 Amendment Test Plot Resampling
MALLINCKRODT US LLC	Project Name: Penobscot River Phase III Engineering Study Project Number: 3616166052
<p>This Work Order (“Work Order”), when approved and signed by both parties, is issued under and amends that certain Agreement between the parties executed February 2, 2016 (“Agreement”). Except as expressly modified herein, all terms and conditions of the Agreement remain in full force and effect.</p>	
<p>SCOPE OF SERVICES</p> <p>Amec Foster Wheeler shall perform the following services (“Services”):</p> <p><input type="checkbox"/> As set forth in the attached document entitled (Insert document description here).</p> <p><input checked="" type="checkbox"/> As described as follows:</p> <p>Amec Foster Wheeler will perform the following Services related to resampling amendment test plots that will be performed as part of treatability studies that are being conducted for sediments contaminated with mercury in the Penobscot River and Estuary (Penobscot System) under this Work Order (WO 2A-055). The elements of this Work Order consist of sample collection, analytical testing, and reporting on the results of the testing. Amec Foster Wheeler will subcontract with Smithsonian Environmental Research Center (SERC) to perform the sampling and testing. The Amendment Test Plot Resampling Work Plan describes the procedures and protocols that will be followed to conduct the testing of sediments and pore water from test plots located in Mendall Marsh.</p> <p>BACKGROUND AND PURPOSE</p> <p>Resampling of amendment test plots is one of several treatability studies and constructability evaluations that are being conducted to collect site-specific data that will be used to provide additional information for the evaluation of remedial alternatives.</p> <p>The amendment test plots were established and amendments were applied in 2010. Sampling of the plots was conducted from 2011 and 2012, but no additional sampling of the plots has been completed since then to evaluate their longer-term effectiveness. This resampling event that will be conducted in September 2017 will provide an additional data point to evaluate if amendments continue to lower available methyl mercury concentrations over a longer time period, the soil depth to which amendments have penetrated, and amendment retention.</p> <p>WORK ORDER TASKS</p> <p>The tasks below are described in the Amendment Test Plot Resampling Work Plan (July 2017):</p> <ul style="list-style-type: none"> • <u>Task 1 – Sample Collection:</u> Sediment and pore water sample collection procedures. • <u>Task 2 – Analytical Testing:</u> Analytical methods and data evaluation procedures. • <u>Task 3 – Reporting:</u> Data evaluation result reporting procedures. <p>SCHEDULE</p> <p>The resampling field work will be conducted by SERC the week of September 25, 2017. The data analysis results will be presented in a power point presentation by SERC on January 15, 2018. Amec Foster Wheeler will present the results in a Draft Technical Memorandum that will be submitted to the Court/Litigants for review on February 1, 2018.</p> <p>ASSUMPTIONS</p> <p>A power point presentation will be prepared by SERC, and a Draft technical memorandum summarizing the results of the resampling effort will be prepared for review by the Court/Litigants. The Final version will be included as an appendix to the Alternatives Evaluation Report.</p>	



COMPENSATION

By their signatures below, the parties acknowledge that they shall be bound by the terms of this Work Order, including the attachments hereto, and that the undersigned are authorized to enter into this Work Order.

MALLINCKRODT US LLC
Date: July 12, 2017
By: *Patricia Duff*
(Signature)
Name: Patricia Duff
(Printed Name)
Title: Vice President

Amec Foster Wheeler Environment & Infrastructure, Inc.:
Date: July 10, 2017
By: *Nelson Walter*
(Signature)
Name: Nelson Walter
(Printed Name)
Title: Vice President