



EBC Site Remediation and Redevelopment Program Remediation of Sites by In-Situ Stabilization and Ex-Situ Sediment Stabilization

Wednesday, September 11, 2019

McLane Middleton | Woburn, Massachusetts

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AGENDA

- 8:00 a.m.** **Welcome:** Edward Van Doren, Vice Chair
EBC Site Remediation and Redevelopment Committee
Principal Environmental Engineer, CDM Smith
- Welcome to McLane Middleton:** Michael Quinn, Managing Director
- 8:10 a.m.** **Program Introduction and Overview – What You Will Learn**
- David. G. Austin, LSP, LEP, PG, Program Chair & Moderator
Environmental Scientist, AECOM
- 8:20 a.m.** **Remediation via In-Situ Geochemical Stabilization**
- Lucas Hellerich, Senior Technical Practice Leader, Woodard & Curran
- 8:45 a.m.** **Pneumatic Flow Tube Mixing Process (PFTM) for Ex-Situ Contaminated Sediments/Dredged Material Stabilization with Beneficial Use Applications**
- Robert Miskewitz, PhD, Chief Scientific Officer
Tipping Point Resources Group, LLC
 - Eric A. Stern, Director, Sediment Management & Technology Development
Tipping Point Resources Group, LLC
- 9:10 a.m.** **In-Situ Soil Stabilization, MGP Project case study – First ISS Project Permitted in CT**
- Larry Hogan, Associate Vice President, AECOM
 - Bryan MacDonald, Project Remediation Engineer, AECOM

9:35 a.m. Panel Discussion

Panel Moderator: David. G. Austin, AECOM

Panel Members:

- Lucas Hellerich, Woodard & Curran
- Larry Hogan, AECOM
- Bryan MacDonald, AECOM
- Robert Miskewitz, Tipping Point Resources Group, LLC
- Eric A. Stern, Tipping Point Resources Group, LLC

10:30 a.m. Adjourn – Closing Remarks – Edward Van Doren

PROGRAM CHAIR

David Austin, LSP, LEP, PG, Senior Project Manager
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Mr. Austin is a project manager and technical lead at AECOM, conducting assessment and remediation of properties and sites primarily in Massachusetts and Connecticut but also throughout New England and elsewhere in the United States. In addition, he supports many construction and re-development projects. He has been a Licensed Site Professional (LSP) of Record in MA for many projects, and he is a Licensed Environmental Professional in Connecticut and a Professional Geologist (NH and NY). Mr. Austin is on the MA Board of Registration of Hazardous Waste Site Cleanup Professionals (LSP Board) and is active with the Licensed Site Professional Association Technical Practices Committee. In addition, he is on the EBC Site Remediation & Redevelopment Committee Leadership team.

SPEAKERS

Lucas Hellerich, Ph.D., P.E., LEP, Senior Technical Practice Leader
Environmental Remediation Services
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Lucas Hellerich is Senior Technical Practice Leader for Environmental Remediation Services for Woodard & Curran. He graduated from the University of Connecticut with degrees in Civil and Environmental Engineering. He is an environmental engineer with experience in remedial process optimization, contaminated site assessment and remediation, exit strategy development, peer review, liability valuation, and regulatory support. He provides technical leadership for and supports projects throughout the United States and in several other countries.

Larry Hogan, LEP, LSP, PG, Associate Vice President
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Mr. Hogan is currently an Associate Vice President in AECOM's Environment Division and has 35 years of experience. He has been a Licensed Environmental Professional in Connecticut since the program's inception and has brought many projects through site investigation and remediation to verification of compliance under Connecticut Department of Energy and Environmental Protection's Remediation Programs using the Site Characterization Guidance and the Remediation Standard Regulation. Mr. Hogan has also been a Licensed Site Professional in Massachusetts since 1997 and has completed project work bringing sites successfully to closure using all of the mechanisms available under the Massachusetts Contingency Plan, and a Registered Professional Geologist in the States of Delaware and New Hampshire. Mr. Hogan has a Bachelor of Science in Environmental Science- Geology Focus from the University of Lowell (n.k.a. UMass Lowell). His investigation and remediation expertise within the State of Connecticut and elsewhere includes a wide variety of facilities including but not limited to; motor vehicle fleet operation centers, retail petroleum sites, unpermitted waste disposal sites, active and inactive bulk petroleum storage facilities, energy facilities, active and inactive industrial manufacturing facilities, R&D laboratory facilities, medical laboratories, and brownfield sites.

Bryan MacDonald, P.E., Project Remediation Engineer

AECOM

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Bryan MacDonald is a remediation engineer at AECOM. He is a registered Professional Engineer (PE) in Massachusetts and holds a Bachelor of Science in Chemical Engineering from Worcester Polytechnic Institute. Bryan provides technical support for the remediation of contaminated sites throughout the northeast and elsewhere in the United States using various treatment technologies such as in-situ chemical oxidation/reduction and in-situ stabilization. Bryan's technical expertise includes bench testing of treatment reagents and remedial design.

Robert Miskewitz, PhD, Chief Science Officer

Tipping Point Resources Group, LLC

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Robert is the Chief Science Officer focusing on applied research, design, testing and coordination for Tipping Points front-end sediment stabilization, commercial implementation activities. Robert is also an Associate Research Professor at Rutgers University, New Jersey in both the Departments of Civil and Environmental Engineering and Environmental Science as well as a member of the Center for Advanced Infrastructure and Transportation (CAIT). He has a BS in Biology from Penn State University and both an MS and PhD from Stevens Institute of Technology, New Jersey in the joint Environmental / Coastal Engineering Program. His doctoral dissertation research focused upon modeling the migration of persistent organic pollutants in stabilized sediment. He has over fifteen years of experience conducting investigations into the fate and transport of contaminants in estuarine, aquatic, and sediment systems. One of his current areas of study is the development of novel binders for the stabilization of contaminated sediment. Robert was the Project Manager of a study that demonstrated the effectiveness of the Pneumatic Flow Tube Mixing (PFTM) technology for the stabilization of contaminated dredged material from the New York / New Jersey Harbor.

Eric A. Stern, Director of Sediment Management and Technology Development

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Eric has over 30 years of government, academia and applied consulting sediment management experience having spent 24 years in US Government both with the US Army Corps of Engineers (USACE) New York District and the US Environmental Protection Agency (EPA) Region 2. At EPA, Eric served as the Regional Contaminated Sediment Program Manager where he directed the *New York / New Jersey Harbor Sediment Decontamination Program*. He is a founding Partner of Tipping Point Resources Group, LLC which focuses on innovative dredged material/contaminated sediment processing and construction applications with upland beneficial use applications. Eric is an active member of the European Union Sediment Network Research (SedNet) and member of the Central Dredging Association (CEDA) Beneficial Use Workgroup which just recently published 2 position/information papers on sustainable management and beneficial use of contaminated sediments. His focus areas include urban and Regional Sediment Management, beneficial use applications of dredged material and post-treated contaminated sediments, sediment sustainability, development of integrated system approaches to managing contaminated sediments, innovative decontamination treatment technologies (ex and in-situ) and multi-media waste to energy technologies.

UPCOMING EBC PROGRAMS

SEPTEMBER 2019

September 12 – Leadership Series with MassDEP Regional Teams: Central
September 12 – EBC & SAME Annual Portsmouth, NH Harbor Cruise
September 17 – Briefing from the Mass DEP Solid Waste Section Chiefs
September 18 – Evening Program: Update from Mass DOT Secretary Stephanie Pollack
September 20 – Climate Adaptation Forum – Public Health
September 24 – Asbestos in Soils: Soil Management during Site Development
September 24 – Ascending Professionals Site Visit: Duxbury Beach Reservation
September 25 – New Hampshire Emerging Contaminants Program: PCB Air Sampling
September 27 – Ocean and Coastal Resources Program: Coastal Contamination

OCTOBER 2019

October 1 – Leadership Series with MassDEP Regional Teams: Southeast
October 2 – New Hampshire Energy Update
October 3 – Water Resources Program: MS4 – Lessons Learned / Year Two
October 3 – New Member Orientation & Committee Wine Tasting
October 10 – Briefing from the Rhode Island DEM Section Chiefs
October 16 – Emerging Contaminants Program: Encapsulants / Barriers for PCB Waste
October 17 – Connecticut Solid Waste Update
October 22 – Rhode Island Emerging Contaminants Program: PFAS Overview
October 23 – Leadership Series with MassDEP Regional Teams: Northeast
October 24 – New Hampshire Offshore Wind Update
October 29 – Ocean & Coastal Resources Program: MVP Implementation

NOVEMBER 2019

November 1 – Rhode Island Solid Waste Update
November 5 – Water Resources Program: PFAS in Water
November 6 – Leadership Series with MassDEP Regional Teams: Western
November 7 – Connecticut Emerging Contaminants Program: PCB Wastes
November 8 – Annual Ocean and Coastal Resources Dredging Conference
November 13 – Evening Program: Update from MWRA Executive Director Fred Laskey
November 22 – Climate Adaptation Forum – Infrastructure