EBC Connecticut Remediation Program
Contaminants of Emerging Concern – Update on PFAS

Thursday, June 21, 2018
Eversource Energy | Berlin, Connecticut

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AGENDA

8:00 a.m.  Welcome: Dana Huff, Chair, EBC Connecticut; Vice President, Tighe & Bond
Welcome to Eversource: Kevin Cahill
Welcome from the Sponsor: David McCarley, Clean Harbors

8:10 a.m.  Program Introduction and Overview
- Steven LaRosa, Program Co-Chair and Moderator
  Technical Leader, Weston & Sampson

8:15 a.m.  General Overview of PFAS
- Elizabeth Denly, Program Co-Chair
  Quality Assurance and Chemistry Systems Director, TRC

8:45 a.m.  Analytical Laboratory Considerations for PFAS
- Brianna McLaughlin, Laboratory Supervisor, Con-Test Analytical Laboratory

9:15 a.m.  Short and Long-Chain PFAS Removal with Single-Use Selective Ion Exchange Resin
- Francis Boodoo, Director of Applied Technologies, Purolite Corporation

10:00 a.m. Networking Break
10:30 a.m.  PFAS Toxicology and Risk Assessment  
  - Karen Vetrano, Ph.D., Risk Assessment and Toxicology Manager, TRC

11:00 a.m.  PFAS Case Studies (Characterization, Treatment, and Fingerprinting)  
  - Steven LaRosa, Technical Leader, Weston & Sampson

11:30 a.m.  Moderated Discussion  
  Moderator: Steven LaRosa, Weston & Sampson  
  Panel Members:  
  - Francis Boodoo, Purolite Corporation  
  - Elizabeth Denly, TRC  
  - Brianna McLaughlin, Con-Test Analytical Laboratory  
  - Karen Vetrano, TRC

12:00 p.m.  Adjourn

PROGRAM CO-CHAIRS

Elizabeth Denly, ASQ CMQ/OE, Quality Assurance & Chemistry Systems Director  
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Ms. Denly is a Director in the Technical Development Unit and is the Quality Assurance and Chemistry Systems Director in the Environmental Sector at TRC. She is a chemist with 29 years of consulting experience encompassing field and laboratory analyses and audits, QA/QC, data validation, and consulting for regulatory agencies. Ms. Denly is a leader in ITRC’s PFAS and TPH Risk Work Groups and in TRC’s Center of Research & Expertise (CORE) Emerging Contaminants Team and recently received the ITRC’s Industry Member of the Year Award for 2017. She is currently focusing on PFAS, specifically the nomenclature, chemistry, sampling procedures, QA/QC, and laboratory analytical methodologies, and has a significant role in educating clients, attorneys, and regulators about PFAS. As a senior QA specialist at TRC, Ms. Denly is responsible for providing QA/QC oversight in support of a variety of environmental investigations and remediation programs including risk-based soil cleanups, ambient air monitoring, and human health and ecological risk assessments. In this role, she has directed the preparation of QAPPs, coordination with the laboratory, selection of the appropriate analytical methodologies to achieve the desired remedial standards, oversight and performance of the data validation process, and determination of the usability of the data and achievement of data objectives.
Mr. LaRosa is Weston & Sampson's Emerging Contaminant Technical Leader with a current focus on PFAS. Steve has been managing several PFAS investigation and remediation projects in Vermont for the VTDEC. Mr. LaRosa is a geologist with 25 years of experience, including extensive experience in preparing work plans and Quality Assurance Project Plans (QAPPs) using TRIAD investigative techniques, cost estimating, health and safety programs, Corrective Action Feasibility Investigations (CAFIs) and Corrective Action Plans (CAPs). Steve has been involved with all aspects of surface and subsurface investigation with various types of drill and testing equipment and routinely provides legal expert testimony regarding environmental site contamination issues.

**SPEAKERS**

**Francis Boodoo**, Director of Applied Technologies  
Purolite Corporation  
150 Monument Road, Bala Cynwyd, PA 19004  
610.203.1673 | francis.boodoo@purolite.com

Francis is the Director of Applied Technologies at the Purolite Corporation. He is the holder of a bachelor in chemical engineering and a master in business administration from Colorado State University. He has over 35 years of expertise in the remediation of potable and groundwater, using ion exchange resin and adsorbent technologies for select removal of contaminants such as perchlorate, nitrate, arsenic, chromium, and uranium. His experience with PFAS includes the development, testing, process design and operation of highly selective ion exchange resins for reducing PFASs in water to non-detect levels. Mr. Boodoo is the holder of 4 water treatment related patents and currently provides training and support for the company's global sales force.

**Brianna McLaughlin**, Laboratory Supervisor  
Con-Test Analytical Laboratory  
39 Spruce Street, East Longmeadow, MA 01028  
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Brianna graduated with an M.S. in Biology from the University of Saint Joseph. She has been in the environmental industry since 2010, starting at Eurofins/Spectrum as an Extractions Technician. From there she was a GC-ECD Analyst performing PCB and Pesticide analyses, as well as CLP Data Package Review while supervising the Organic Extractions Department. In 2015, Brie joined Con-Test Analytical Laboratory as the Organic Extractions Supervisor and is now the Laboratory Supervisor. Starting in 2016 Brianna she began the development of the laboratory's PFAS Department at Con-Test. She is now in charge of all research and development to further the laboratory's capabilities of this ever-changing market.
Karen Vetrano, Ph.D., Risk Assessment and Toxicology Manager
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Dr. Vetrano has over 27 years of experience and manages TRC's Risk Assessment and Toxicology Practice as well as the Odor Evaluation and Control Group. She supervises projects that include human health and ecological risk assessments, toxicological evaluations, exposure assessments, labeling and odor evaluation, indoor air quality, and industrial hygiene program reviews. Dr. Vetrano provides management and technical support for the various components of human exposure and health risk assessments under such programs as Superfund, Resource Conservation and Recovery Act (RCRA), California Proposition 65, the Massachusetts Contingency Plan (MCP) (as well as other individual State programs) and EPA's Brownfield Program. She also provides technical oversight support to government agencies on site investigation and remediation projects, including participating in scoping for investigations and review of investigation work plans and reports. She recently served as a volunteer co-author for Section 3: “Human and Ecological Impacts” of the National Ground Water Association's document, *Groundwater and PFAS: State of Knowledge and Practice*. Specifically, Dr. Vetrano wrote the Human Exposure and Risk Assessment sub-sections. She also provided peer-review for the toxicology subsection provided in Section 3.

UPCOMING EBC PROGRAMS

JUNE 2018
June 22 – Climate Program – Protecting Boston: The Boston Harbor Barrier Study
June 27 – 25th Annual EBEE Awards and 28th Annual Meeting
June 29 – Infrastructure Program: Understanding the Benefits of the ISI Envision Rating System

JULY 2018
July 9 – Climate Change and Air Committee Program Planning Meeting
July 11 – Site Remediation and Redevelopment Committee Program Planning Meeting
July 12 – NH – U.S. EPA Regional Administrator Alex Dunn & NH DES Commissioner Robert Scott
July 13 – Ocean & Coastal Resources Program – 2nd Annual Coastal Construction Case Studies
July 17 – EBC PCB Management Program – Managing PCB Impacted Building Materials
July 18 – Rhode Island Program: Brownfields – Success Stories and Lessons Learned
July 18 – Rhode Island Chapter Program Planning Meeting
July 19 – Ascending Professionals Program Planning Meeting and Networking Night
July 20 – Innovative Alternative Technologies to Manage Solid Waste

AUGUST 2018
August 9 – Annual Summer Garden Party
August 16 – Annual Rhode Island Summer Garden Party
August 23 – Annual Softball Game

SEPTEMBER 2018
September 11 – CT Program: Evaluation and Closure of NAPL Sites

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