

## Professional Development Day - PFAS Advancements for Sound Management of Federal Contaminated Sites

Thursday, Oct 10

10:45 AM - 11:20 AM

### Opening Remarks & First Site Investigation Presentation: Dynamic and Data-Driven Approach for Accelerated PFAS Site Characterization and Risk Mitigation

Remarques d'ouverture et première session d'évaluation des sites contenant des SPFA

**Kristi Diller**

Project Geologist and PFAS Investigation Subject Matter Expert, Parsons

**Stefano Marconetto**

Sr. Principal and Emerging Contaminants Practice Lead, WSP

**Stephen Sauveur**

Regional Service Line Leader. Environmental Services, Atlantic, Defence Construction Canada

Dynamic investigation approaches allow for flexibility during site characterization to manage decision uncertainty. The nature and extent of PFAS compounds are directly related to their release mechanisms (e.g., spraying of firefighting foam, aerial dispersion from an industrial facility, sewer discharges, or seepage from a landfill) that interact with the physical elements of the conceptual site model (CSM) (e.g., land use, topography, hydrology, stratigraphy, migration mechanisms, and transport pathways). Unique properties of PFAS further influence their fate and distribution. Consequently, insight and clarity are achieved by combining a robust three-dimensional CSM with knowledge of PFAS release and transport characteristics. The CSM ...

Thursday, Oct 10

11:20 AM - 11:50 AM

### Second Site Investigation Presentation: Best Practices for Investigating PFOS-Alternative AFFF

Deuxième présentation d'évaluation de sites: Meilleures pratiques pour l'évaluation des mousses à formation de pellicule aqueuse (AFFF) sans PFOS

**Justin Hains**

Project Manager, Team Lead, Stantec Consulting Ltd.

This presentation originates from a recent case study involving an accidental release of a sprinkler system in an airplane hangar, which discharged aqueous film-forming foam (AFFF) containing per- and polyfluoroalkyl substances (PFAS). The AFFF used was Ansulite 3%, a product among several other next generation AFFFs that came to market labelled as an environmentally friendly alternative to PFOS-based AFFF. It is understood that C6-based AFFF have consisted mostly of some variation with primarily 6:2 fluorotelomer betaine (6:2 FTAB), and secondarily 6:2 fluorotelomer sulfonate (6:2 FTS). In recent years these PFOS-alternative AFFF have also started being phased out by some agencies around ...

Thursday, Oct 10

11:50 AM - 12:20 PM

## **Regulatory Presentation: PFAS Guidance Status Update from FCSAP Expert Support Departments**

**Angus Calderhead**

Senior Hydrogeologist, Environnement and Climate Change Canada (ECCC)

**Christine Levicki**

Environmental Specialist, Health Canada

**Maria Petrou**

Coordinator, Contaminated Sites, Environment and Climate Change Canada

**William Martin**

Physical Science Specialist, Environment and Climate Change Canada (ECCC)

The FCSAP Expert Support Departments (ESDs) are working together to create an Interim FCSAP PFAS Guidance to be used to assess federal PFAS contaminated sites. An overview of what this document will contain will be shared. During this session, ESDs are interested in receiving feedback from custodians and/or consultants managing PFAS sites regarding their needs and current gaps. This feedback will be used to further develop the content of the guidance document in progress. A brief overview of environmental criteria will also be presented during this session followed by Q&As.

Thursday, Oct 10

12:20 PM - 12:50 PM

## **Lunch Break**

Thursday, Oct 10

12:50 PM - 01:50 PM

## **Analytical Panel: From Updated Field Sampling Best Practices to Analytical Methods and Data Interpretation**

**Andrew White**

Business Development - Emerging Markets, Bureau Veritas

**Bharat Chandramouli**

Director, Products, SGS

**Egemen Aydin**

Senior Scientific Advisor, AGAT Labs

**Tammy Chartrand**

National PFAS Program Lead, ALS

This panel features four presentations by analytical laboratories followed by Q&As. The presentations will cover the entire process from sampling preparation to analytical data review including: best practices for PFAS sampling, how to select from multiple analytical methods for various environmental media including targeted and non-targeted analyses, as well as QA/QC and interpretation of laboratory data.

Thursday, Oct 10

01:50 PM - 02:20 PM

## **First Risk Assessment Presentation: Environmental Risk Assessment of PFAS Contaminated Sites – Problem Formulation and Uncertainty Analysis of Risk Drivers Warranting Risk Management and Remedial Action Planning**

**Mary Ellen Starodub**

National Risk Assessment Lead, AECOM Canada

Key characteristics of PFAS when developing a problem formulation for risk assessment and the inherent uncertainties involved, under the current framework for risk management of contaminated sites in Canada, will be examined. Risk assessment of PFAS will be discussed in the context of Canada's State of PFAS report and Risk Management Plan, and the available guidance and tools by Health Canada (including HC's recent drinking water objective for PFAS as a class of contaminants), Environment and Climate Change Canada (ECCC), the Canadian Council of Ministers of the Environment (CCME), and other jurisdictions. A comparison will be presented of risk assessment ...

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02:20 PM - 02:50 PM

## **Second Risk Assessment Presentation: The Role of PFAS in Sediments in Fish Recovery**

**Jennifer Benaman**

Principal, Anchor QEA

Jennifer Benaman (jbenaman@anchorqea.com) (Anchor QEA, Saratoga Springs, NY, USA), John Connolly, David Glaser, Beth Lamoureux, and Wen Ku (Anchor QEA, Woodcliff Lake, NJ, USA), Sarah LaRoe (Anchor QEA, Saratoga Springs, NY, USA), Dan Opdyke (Anchor QEA, LLC, Austin, TX, USA), and Deirdre Reidy (Anchor QEA, Syracuse, NY, USA). Background/Objectives. Regulatory attention continues to grow around per- and polyfluoroalkyl substances (PFAS). Initially, much focus was on drinking water because that was recognized as the largest and most readily addressable human health exposure pathway. But, as research has expanded and more sites with drinking water issues are successfully addressed through treatment and remediation, ...

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02:50 PM - 03:05 PM

**Break**

Thursday, Oct 10

03:05 PM - 04:35 PM

## Remediation/Treatment Panel & Closing Remarks

**Andrew Thalheimer**

Partner, Dillon Consulting

**Ben Sweet**

Director of Environmental Technologies, QM Environmental

**Bill Malyk**

Senior Principal Engineer, WSP Canada Inc.

**Bruce Tunncliffe**

President, VEI Contracting Inc.

**Korene Torney**

Senior Project Manager, SLR Consulting (Canada) Ltd.

**Rick McGregor**

President, InSitu Remediation Services Ltd

**Stefano Marconetto**

Sr. Principal and Emerging Contaminants Practice Lead, WSP

**Stephen Sauveur**

Regional Service Line Leader. Environmental Services, Atlantic, Defence Construction Canada

By moving through the main aspects of the remediation / treatment lifecycle, this panel will have interactive discussions on setting remedial objectives, technology evaluation and selection for different media, technical specifications, execution, post-remediation monitoring, residual liability management and more.



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