NAVFAC
Naval Facilities Engineering Systems Command
EXWC Engineering and Expeditionary Warfare Center

2026 RITS

REMEDIATION INNOVATIVE TECHNOLOGY SEMINAR (RITS)

DAY 1:

- Groundwater Treatment Technologies for Per- and Polyfluoroalkyl Substances (PFAS): Sorption, Separation, and Destruction
- Applying PFAS Forensics to Complex, Multi-Source Sites
- Public Outreach for PFAS Off-Base Drinking Water Well Sampling

DAY 2:

- Optimizing the Journey to Long-Term Management and Site Closure
- Groundwater-Surface Water Interactions (GSI)
- Evaluation of PFAS Sources under the Watershed Contaminated Source Document (WCSD) Process

WHAT:

NAVFAC's showcase for innovative Environmental Restoration (ER) technologies, methodologies, and guidance over a two-day seminar in a classroom setting.

WHO:

NAVFAC Remedial Project Managers (RPMs), other Navy ER personnel, Department of War (DoW) personnel, federal/state/local regulators, and contractors with an active Department of the Navy (DON) ER contract are welcome to attend.

ATTENDANCE NOTE:

Registration is REQUIRED. Priority is given to Navy personnel due to limited space. For non-Navy personnel, seats will be based on availability. Contractors will be asked to provide an active DON ER contract number during registration.

POINT OF CONTACT:

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REGIONAL EVENTS:

LAST DAY TO REGISTER:

NAVFAC Southeast
10–11 June (Wednesday – Thursday)
Hampton Inn & Suites Orange Park
141 Park Avenue, Orange Park, FL 32073
2 June

NAVFAC Atlantic & NAVFAC Mid-Atlantic
22–23 June (Monday – Tuesday)
DoubleTree by Hilton Norfolk Airport
1500 N. Military Highway, Norfolk, VA 23502
14 June

NAVFAC Headquarters & NAVFAC Washington
24–25 June (Wednesday – Thursday)
AMA Washington Executive Conference Center
2345 Crystal Drive, Room 203, Arlington, VA 22202
16 June

NAVFAC Southwest & BRAC PMO West
8–9 July (Wednesday – Thursday)
Embassy Suites by Hilton San Diego Bay Downtown
601 Pacific Highway, San Diego, CA 92101
30 June

NAVFAC Northwest
22–23 July (Wednesday – Thursday)
Best Western Plus Silverdale
3073 NW Bucklin Hill Road, Silverdale, WA 98383
14 July

NAVFAC Pacific & NAVFAC Hawaii
5–6 August (Wednesday – Thursday)
Oahu Veterans Center
1298 Kukila Street, Honolulu, HI 96818
28 July

HOW TO REGISTER? | Click on the **Blue Location Text** or scan the QR code for your chosen location.

Agenda

RITS Day 1 Presentations

(Times subject to change)

0800 – 0830	**Welcome & Introduction**
0830 – 1045	**Groundwater Treatment Technologies for PFAS: Sorption, Separation, and Destruction** There are several management strategies for PFAS-impacted groundwater, including in situ approaches, (e.g., enhanced retention via colloidal activated carbon), and ex situ approaches, (e.g., sorption and separation followed by destruction of concentrates). Central to these technologies is the evaluation of the full lifecycle – from selection of the most appropriate technology and application to end-of-process management of resulting waste streams and residuals via disposal and destruction. This presentation will focus on the suitability of these technologies, examining critical factors related to site conditions such as site characterization/conceptual site model (CSM) factors, PFAS concentrations and composition, plume dimensions and hydrology, available infrastructure, safety, disposition of waste streams via disposal or destructive treatment, and cost. Illustrative, field-based case studies from DON and DoW installations will be used to highlight these key factors and performance of the selected technologies. While currently available technologies will be featured, the presentation will also include technologies at advanced development levels from various research, testing, development and evaluation (RDT&E) programs. **Speakers: Tony Danko (NAVFAC EXWC) and John Kornuc (NAVFAC EXWC)**
1045 – 1100	**Break**
1100 – 1230	**Applying PFAS Forensics to Complex, Multi-Source Sites** PFAS chemistry is complex. While not all sites under PFAS remedial investigation require PFAS forensics, some sites with multiple known and unknown on-site and off-site sources may use advanced data interpretation techniques to visualize trends, identify spatial and temporal patterns, and understand background levels, sources, and transformation processes. This presentation will build upon the concepts presented during the 2025 RITS presentation “Contextualizing PFAS Detections: Background and Forensics.” It will go further into targeted PFAS forensics and analytics methodology considerations for PFAS sites, including using automated data processing and a PFAS data analytics framework to i) identify extent of exceedances; ii) map spatial and temporal distributions; iii) detect unique data clusters for source fingerprinting and precursor transformation; iv) compare to an up-to-date repository of literature-based biotransformation pathways; v) implement robust source differentiation functionalities; and vi) employ data gap recognition techniques. This presentation will also discuss a non-DoW case study that has different sources using target PFAS data contributing to a site-wide PFAS plume with multi-year data to evaluate how temporal and spatial PFAS data clusters change and how PFAS precursor transformation can impact forensics and CSM understanding. **Speaker: Dora Chiang (Jacobs)**
1230 – 1345	**Lunch**
1345 – 1600	**Public Outreach for PFAS Off-Base Drinking Water Well Sampling** PFAS have been found in groundwater at many Navy and Marine Corps installations due to past use of aqueous film forming foam (AFFF) and other PFAS-containing materials. As a result, many of these installations are working on or toward testing off-base private drinking water wells to ensure the protectiveness of the surrounding communities. This off-base effort requires the Navy and Marine Corps to engage the community and key stakeholders in the community before sampling to inform them about what PFAS is and what and why testing is being performed, as well as offer an opportunity to ask questions and express concerns. This presentation will outline outreach options for engaging diverse audiences using risk communication principles as applied directly to DON PFAS off-base private drinking water well sampling projects. It will also detail how to effectively plan for an open house meeting, incorporating lessons learned from past meetings. **Speaker: Sharon Baumann (Navy and Marine Corps Force Health Protection Command)**
1600	**Adjourn**

Agenda

RITS Day 2 Presentations

(Times subject to change)

0800 – 0815	**Welcome & Introduction**
0815 – 1000	**Optimizing the Journey to Long-Term Management and Site Closure** Successful site closure is a pressing challenge within the DON ER Program, requiring a balance of technical feasibility, costs, and regulatory alignment. For cleanup sites where site closure is not feasible (e.g., due to residual contamination or land-use constraints), optimizing long-term management (LTMgt) is essential to maintain protectiveness while minimizing lifecycle costs. This presentation will discuss various exit strategy options, importance of decision frameworks (e.g., decision trees and flow charts), and resources to conduct transition assessments – all assisting RPMs to translate complex site conditions and findings into clear decision pathways that support stakeholder communication and consensus-building. Case studies using these optimization approaches will also be presented to illustrate how RPMs can realize cost avoidance and accelerate advancement toward LTMgt and site closure, aligning with the NORM Optimization Module. **Speakers: Paul Favara (Jacobs) and Kim-Lee Yarberry (Jacobs)**
1000 – 1015	**Break**
1015 – 1215	**Groundwater-Surface Water Interactions (GSI)** GSI investigations are often performed when groundwater with highly mobile contaminants, like PFAS, have the potential to migrate to surface water bodies and therefore are focused on the transition zone where shallow groundwater and surface water interact. These investigations help optimize site characterization by confirming groundwater migration pathways, defining the extent of contaminant releases, informing risk assessments, quantifying groundwater discharge and contaminant flux, informing remedial design strategies, and monitoring remedy effectiveness. This presentation will introduce GSI, identify scenarios in which GSI investigations are necessary, review common methods for GSI investigations, discuss how to plan for and scope GSI investigations, and address the unique challenges that PFAS GSI investigations pose. Case studies will be discussed from Joint Base Cape Cod and Naval Station Newport. Demonstration and validation of new and promising techniques will also be covered, including unmanned aircraft systems (UAS) thermal infrared imaging, passive samplers, specialized seepage meters, and a multiscale thermal and electromagnetic technologies toolbox for mapping and monitoring GSI. **Speaker: Michael Mathioudakis (GSI Environmental)**
1215 – 1330	**Lunch**
1330 – 1515	**Evaluation of PFAS Sources under the WCSD Process** Sediment and surface water at DON cleanup sites can be influenced by multiple pathways, including on-site releases, off-site sources, regional background, groundwater migration, and stormwater transport. Where off-site sources can contribute to sediment impacts at a DON site, these pathways must be evaluated to support defensible sediment investigations and response decisions. The WCSD is a concise, policy-driven report used to identify and document potential DON and non-DON contaminant sources within a watershed that could affect sediments associated with DON cleanup sites. This presentation will provide an overview of the WCSD process, including when a WCSD is required and the key steps for development, with emphasis on the recent updates regarding PFAS-related considerations for literature review, CSM development, and source evaluation. Examples from recent DON WCSDs will be used to illustrate application of the process and highlight key considerations for RPMs, particularly at sediment sites where PFAS are a concern. **Speaker: Wendy Hovel (Geosyntec)**
1515	**Adjourn**

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