

# Technology Innovation News Survey

## Entries for April 1-15, 2021

### Market/Commercialization Information

#### REMEDIATION SERVICES PR-58

U.S. Army Corps of Engineers, New England District, Concord, MA.  
Contract Opportunities at Beta.SAM, Solicitation W912WJ21X0021, 2021

The U.S. Army Corps of Engineers, New England District is issuing this sources sought announcement for remediation services at the PR-58 site in North Kingstown, Rhode Island, to determine interest, availability and capability of 8(a), HUBZone, service-disabled veteran-owned, woman-owned, and other small business concerns under NAICS code 562910 (750 employee size standard). Chlorinated VOCs, primarily trichloroethene and tetrachloroethane, have been identified in the source area at concentrations >10,000 ug/kg in soil and 70,000 ug/L in groundwater. This sources sought is to address source area contaminants only. A follow-on remedial contract will be awarded at a later date, currently anticipated to be 2025, to address downgradient dissolved-phase contamination. Capability statements are due by 2:00 PM ET on May 24, 2021. <https://beta.sam.gov/opp/4f7bb941f37b40d18f0c5c7263c79088/view>

#### IDIQ CONTRACT FOR ENVIRONMENTAL REMEDIAL ACTION CONTRACT FOR SITES IN HAWAII, GUAM, AND OTHER AREAS

Naval Facilities Engineering Systems Command Pacific, JBPHH, Hawaii.  
Contract Opportunities at Beta.SAM, Solicitation N62742-20-R-1801, 2021

This is a total small business set-aside procurement to obtain services under a cost-plus-award-fee IDIQ-type contract for performing remedial actions at environmentally contaminated sites located predominantly at Navy and Marine Corps installations and other Government agencies. Period of performance is 12 months from date of contract award with four 12-month options and one option to extend services up to six months, not to exceed 66 months. Total maximum value of the contract is \$245M, including options (if exercised). Offers are due by 2:00 PM Hawaii Time on June 16, 2021. <https://beta.sam.gov/opp/c0c008ba2c4c4c3ea4f137c8ff2eea81/view>

#### WATER TOXICITY SENSOR CHALLENGE

U.S. EPA, Office of Research and Development, 2021

To help meet the need for better ways to monitor toxicity in water, EPA and partners are launching the Water Toxicity Sensor Challenge. The Challenge calls on innovators to develop a sensor that can identify whether one or more chemical pollutants and natural toxins are present in various types of water much faster and less expensively than current lab methods for detecting individual, specific chemicals. Certain chemicals can activate various toxicity pathways inside living cells and disrupt normal biological processes, like breathing or digestion, which can lead to harmful health effects. Although the sensor might not identify a specific contaminant/toxin, it should be able to measure or quantitate the level of activation of one or more toxicity pathways when the sensor is exposed to water that contains relevant amounts of contaminants/toxins targeting the pathway(s). EPA intends to select up to three finalists to receive awards of \$15,000 each from a total award pool of \$45,000 for proposals that meets all requirements. Submissions must be received by 11:59 PM ET on July 26, 2021. This Challenge is a collaborative effort of the U.S. EPA, USGS, NOAA, U.S. Army Medical Research and Development Command, Greater Cincinnati Water Works, and Water Research Foundation. <https://www.epa.gov/innovation/water-toxicity-sensor-challenge> AND <https://innocentive.wazoku.com/#/challenge/89cf14146dbe4d40a5a94ea823d34c05>

#### USACE TULSA DISTRICT RFP FOR \$40M HUBZONE IDC MATOC FOR ENVIRONMENTAL REMEDIATION SERVICES PROJECTS ASSIGNED TO THE RPEC

U.S. Army Corps of Engineers (USACE), Tulsa District, Tulsa, OK.  
Contract Opportunities at Beta.SAM, Solicitation W912BV-21-R-0023, 2021

This acquisition is a HUBZone small business set-aside under NAICS code 562910 to provide a full range of environmental remediation services (ERS) to support projects assigned to the USACE Southwestern Division Regional Planning and Environmental Center, the Southwestern Division, and the South Pacific Division. The USACE Tulsa District intends to award a \$40M small business MATOC (multiple-award task-order contract) with a target of up to 10 indefinite-delivery contracts (IDCs) for ERS projects. Contracts will have a base period of three years and one two-year option. Services under the awarded IDCs include control and remediation of environmental contamination from pollutants, toxic substances, radioactive materials, hazardous materials, munitions and explosives of concern, and munitions constituents. Proposals are due by 3:00 PM CT on July 28, 2021. <https://beta.sam.gov/opp/515427ad924b44ba8ca8a5044b7fc98b/view>

#### BROAD AGENCY ANNOUNCEMENT FOR INNOVATIVE ENVIRONMENTAL TECHNOLOGIES AND METHODOLOGIES (COMBINE)

Facilities Engineering and Expeditionary Warfare Center, Port Hueneme, CA.  
Contract Opportunities at Beta.SAM, Solicitation N3943021S2201, 2021

This announcement constitutes a Broad Agency Announcement (BAA) for the Naval Facilities Engineering and Expeditionary Warfare Center (NEXWC) under NAICS code 541715. Abstract submittals to this BAA can be made using the form attached to the notice at beta.sam. NEXWC is interested in environmental technologies and methodologies that are either new, innovative, advance the state-of-the art, or increase knowledge or understanding of a technology or methodology in the following topic areas: (1) Environmental assessment, restoration and cleanup. (2) Conservation of natural resources. (3) Unexploded ordnance detection, location, de-energizing, disposal or remediation. (4) Technologies and methodologies addressing emerging contaminants. (5) Environmental compliance. (6) Resilient infrastructure crucial for enduring environmental protection. (7) Remote sensing and web-based data processing, modeling and reporting of environmental data. This funding opportunity is open for one year from date of publication,

i.e., until March 17, 2022. Proposals may be submitted at any time during this period.  
<https://beta.sam.gov/opp/38dbd45ff6c043799eb4e0aa900d90c2/view>

## Cleanup News

### **OPTIMIZING INJECTION-BASED REMEDIATION IN BEDROCK: LESSONS FROM DNAPL REMEDIATION BY CHEMICAL OXIDATION**

Dombrowski, P. | DCHWS 2021 Design and Construction at Hazardous Waste Sites Virtual Symposium, 29-30 March and 1 April, Virtual, 19 slides, 2021

Presentation describes an application of ISCO to treat bedrock groundwater contamination. It looks at the lessons learned over four injections of sodium persulfate to treat bedrock contaminated with PCE DNAPL.

<https://clu-in.org/conf/tio/DCHWS16/slides/3Slide Presentation for Paul M. Dombrowski, P.E., ISOTEC.pdf>

### **AN ADAPTIVE MANAGEMENT APPROACH FOR GROUNDWATER REMEDIATION IN DEEP FRACTURED ROCK**

Favara, P., P. Zorba, K. Brown, R. Dean, J. Hartley, P. Lawson, and D. Patterson.

DCHWS 2021 Design and Construction at Hazardous Waste Sites Virtual Symposium, 29-30 March and 1 April, Virtual, 20 slides, 2021

This presentation looks at the challenges of characterizing and remediating contamination in fractured sandstone at the Santa Susana Field Laboratory and the benefits of adaptive management at complex sites. Groundwater extraction and treatment, enhanced in situ bioremediation, bedrock vapor extraction, and monitored natural attenuation are evaluated.

<https://clu-in.org/conf/tio/DCHWS16/slides/6Slide Presentation for Paul Favara, P.E. Jacobs.pdf>

More information on the Santa Susana Field Laboratory remediation project: <https://ssfl.msfc.nasa.gov/>

### **OPTIMIZING REMEDIATION TO ACHIEVE CLOSURE AT MULTIPLE SITES AT VERMONT AIR NATIONAL GUARD BASE**

Germon, E.M. | DCHWS 2021 Design and Construction at Hazardous Waste Sites Virtual Symposium, 29-30 March and 1 April, Virtual, 14 slides, 2021

This presentation highlights the positive outcomes of optimizing the final remedial systems and their operations, maintenance, and monitoring under a performance-based contract. Cost savings and accelerated closure at four Installation Restoration Program sites are detailed.

<https://clu-in.org/conf/tio/DCHWS16/slides/7Slide Presentation for E. Matt Germon, P.E.; Jacobs.pdf>

### **DESIGN OF EVAPOTRANSPIRATION COVER SYSTEMS IN HUMID CLIMATES**

Kim, J. | DCHWS 2021 Design and Construction at Hazardous Waste Sites Virtual Symposium, 29-30 March and 1 April, Virtual, 17 slides, 2021

Presentation details the construction of the ET cover remedy at Operable Unit 1, Clearview Landfill, at the Lower Darby Creek Area site in Pennsylvania. The landfill footprint includes the landfill as well as an adjacent park and neighborhood, requiring the removal of surface soil in residential yards. Other elements of the presentation include ET cover performance monitoring, a flood study, stream restoration, and the establishment of research nurseries.

<https://clu-in.org/conf/tio/DCHWS16/slides/12Slide Presentation for JC Kim Ph.D., P.E.; Tetra Tech.pdf>

## Demonstrations / Feasibility Studies

## Research

## General News

The Technology Innovation News Survey welcomes your comments and suggestions, as well as information about errors for correction. Please contact Michael Adam of the U.S. EPA Office of Superfund Remediation and Technology Innovation at [adam.michael@epa.gov](mailto:adam.michael@epa.gov) or (703) 603-9915 with any comments, suggestions, or corrections.

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