Entries for September 16-30, 2025

S – SP450026R0002 NORTHEASTERN REGIONAL HAZARDOUS WASTE INCINERATION CONTRACT (COMBINE)
U.S. Department of Defense, Defense Logistics Agency, Disposition Services, Battle Creek, MI
Contract Opportunities on SAH,opy SP4500

F -- EPA WATER RFP (SNOTE)
U.S. Environmental Protection Agency, Region 9 Contracting Office, San Francisco, CA Contract Opportunities on SAM.gov 68HE0925R0015, 2025

Due to the complexity of the questions received in response to the RFP, EPA anticipates providing answers no later than Wednesday, November 5, 2025. EPA also expects to issue the first amendment to this RFP by that date, which will extend the proposal due date by at least two (2) additional weeks. This solicitation is a full and open competition for the Water Assistance Technical Emergency Response (WATRI) contract under NAICS code 541620. The purpose of this contract is to provide services that support TPA in carrying out its responsibilities under the Clean Water Act (CWA) and the Assignate TAS (DWA). Under this contract, the contract or will assist FPA in carrying these responsibilities within the assigned region(s) and, as needed, provide backup, cross-regional, and national response support. The contractor must be prepared to deliver scientific and technical assistance during EPA's water-related emergency responses and to support water program activities during routine operation. For each assigned task, the contractor shall provide qualified personnel with current credentials and certifications, along with all necessary supplies, materials, tools, and equipment to complete the work. Unless otherwise specified, these activities will support the entire water sector, including drinking water systems (sources, pumping, storage, treatment, and distribution); wastewater systems (collection, treatment, storage, and support, data management, and training.

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F -- LIBBY ASBESTOS SUPERFUND SITE RESPONSIBLE PARTY OVERSIGHT, PROPOSED PLAN, RECORD OF DECISION (PRESOL) U.S. Army Corps of Engineers, Engineer Division Northwestern, Omaha District, Omaha, NE contract Opportunities on SAHayo, W912BSF6AR045, 2025

When this solicitation is released on or about October 8, 2025, it will be competed as a full and open competition under NAICS code 562910. The U.S. Army Corps of Engineers, Omaha District, intends to issue a solicitation for the Responsible Party Oversight, Feasibility Study, and Record of Decision, Libby Superfund Site, Libby, Montana. Libby is a community in northwestern Montana that is located near a large open-pit vermiculite mine (Operable Unit [OU3], Vermiculite from the mine at Libby is known to be contaminated with amphibole asbestos (tremolite-actinoile series). The considered effort for this solicitation will be to provide responsible party (PRP) oversight for completion of a PRP-led resultility Study and complete a Proposed Plan and Record of Decision on behalf of EPA Region 8. The Feasibility Study and complete a Proposed Plan and Record of Decision on behalf of EPA Region 8. The Feasibility Study effort will use data previously collected to complete a detailed and complex analysis of the information produced by the PRP for identification and second of alternatives, including cost estimation, after the reasonishing Study is released and public comment has been considered, the EPA and its second results of the produced of the public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered, the EPA and its second results of the produced public comment has been considered.

MONITORED NATURAL ATTENUATION (MNA) ASSESSMENT FOR THE CHEMICALS, METALS, AND PESTICIDES (CMP) PITS OPERABLE UNIT (OU) AND THE PEN BRANCH WETLAND Koelker, E., H. VerMeulen, and S. Fuentes. SRNL-TR-2025-00299, 286 pp, 2025

An independent review of groundwater data was conducted to assess the monitored natural attenuation (MNA) performance related to the Chemicals, Metals, and Pesticides (CMP) Pits OU located in the central portion of the Savannah River Site (SRS). The assessment enfailed an independent analysis of groundwater concentration data, available surface water concentration data, soil concentration data, and relevant historical geological characterization logs. Following completion of active soil vapor recovery in 2009, the strategy of MNA with institutional controls for continued remediation was implemented. Three remediation Action Objectives (RAOs) identified during this assessment pertaining to the site-specific objectives settled in historical RODs for the CMP Pits OU located historical RODs for the CMP Pits out of the groundwater plume to MCDs and verifical RODs for the CMP Pits out of the state of the CMP Pits out of the RODs of th

ADVANCED PFAS REMOVAL FROM LEACHATE USING AEC TECHNOLOGY Chandler, T. I PFAS Forum V, 9-11 April, Orlando, FL, 26 minutes, 2025

An immediate approach to capturing and destroying PFAS in iterchafts the Aspects Electrisdatic Concentrator (ACI) is inhighlighted in this presentation. AEC is a sustainable and highly efficient oblidion for PFAS encoval from leachable and other contaminated queues streams. The presentation of the present

COMMUNITY AND FUNCTIONAL STABILITY IN A WORKING BIOREACTOR DEGRADING 1,4-DIOXANE AT THE LOWRY LANDFILL SUPERFUND SITE ROmero, J.L., J.H. Ratilf, C.J. Carlson, D.R. Griffiths, C.S. Miller, A.C. Mosier, and T.M. Roane Applied and Environmental Microbiology 91(10):e00574-25(2025)

Dioxane-containing groundwater at the Lowry Landfill Superfund site is treated using in situ microorganisms in an aboveground bioreactor. The original treatment processes successfully removed VOCs from contaminated groundwater but did not reduce dioxane. To address these issues, a new aerobic (micro) biological treatment system (BTS) was installed, which was composed of three aerated moving-bed bioreactors to concurrently treat groundwater collected from locations described in the control of the

Demonstrations / Feasibility Studies

ADVANCED OXIDATION ASSISTED GROUNDWATER TREATMENT SYSTEM: A FIELD EVALUATION Namboodiri, V., D. Cutt, I. Katz, D. Gwisdalla, F. Alvarez, and M. Pensak. EPA/600/R-25/125, 35 pp, 2025

The objective of this project was to conduct a field evaluation of an advanced oxidation-assisted technology for treating 1,4-diocase contaminated groundwater at the Williams Property. Superfund sits in New Jersey. The treatment system was regionably designed, including 3, and tested at the EPA test's Exhaulation Facility in Cidomash 1,000 and lose them shipped or the S.S. acce Williams Property also. B. 10 pains allotate parent the property and the state of the property and the property a

MULTI-SCALE EVALUATION OF PFAS THERMAL DESTRUCTION REQUIREMENTS
Shields, E., J. Krug, W. Linak, S. Jackson, W. Roberson, T. Yamada, and M. Kahandawala.
SERDP Project ER21-1288, 69 pp., 2025

The main objective of this research project is to improve the understanding of the fate of PFAS during thermal treatment, conditions needed for destruction, and to investigate alternative indicators of destruction to help verify PFAS destruction. Tests using C1 to C5 perfluorocarbons performed in a bench-scale tube furnace found that, except for tertafluoromethane, the compounds were destroyed around 1000-1100 °C, but some products of incomplete combustion were not observed. A function of the products of incomplete combustion were not observed. A function of the products of incomplete destruction approached detection limits. Hexafluoroethane showed a similar trend and could be a potential indicator to help evaluate PFAS destruction. Experiments were performed in simplified systems and matrices and may not functive pay by four full-scale systems. This work helped establish methods to characterize emissions from increastors to determine if PFAS are mineralized during incineration. Future work should include pilot or full-scale systems burning typical hazardous waste streams to determine how mixed wastes and complicated matrices impact PFAS destruction.

Interpretation

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CASE STUDY: IN SITU REMEDIATION OF A PFAS SOURCE AREA UNDER A FACTORY Shore, J. and K. Maerten. I AquaConSoil 2025, 16-20 June, Lieve, Belgium, abstract only, 2025

Solits and leaks during chemical handling of PFAS at a textile manufacturing facility in Belgium resulted in a cumulation of PFAS in the shallow soil, which then leached into the groundwater. These conditions resulted in a diffuse PFAS plume composed of fluorotelomers 6.2, 8.2, and 10.2 FTS, along with C-4 to C-9 carboxylic acids including PFOA PFAS are largely relained in a day layer, with concentrations decreasing at greater depths. Nested shallow and deep groundwater monitoring wells revealed dissolved-phase PFAS concentrations 10,000 ng/L in the clay (scaliblary zone), over 20 times higher than in the underlying saturated sand alleyer. A solution was needed to eliminate the long-term PFAS flux from the source zone and prevent further plume development. A proofe-forcenge plot test was conducted to assess to 90 ng/L in the calcy (scaliblary zone), over 20 times higher than the underlying saturated sand alleyer. A solution was needed to eliminate the long-term PFAS flux from the source zone and prevent further plume development. A proofe-forcenge plot test was conducted to assess to 90 ng/L in the calcy calculated variety of the proofe-forcenge plot test was conducted to assess the application of a liquid colloidal activated carbon (CAC) material, consisting of activated carbon particles less than 2 min in diameter suspended in water, to reduce PFAS leaching. The formulation allows for the permeation through and coating of activated particles only the source of the proofe-forcenge plant in a square pattern with 2-meter spacement that enumer with 2-meter spacement and enumer with 2-meter spacement and 2 meter of the proofe-forcenge with 3 meters of the source of the proofe-forcenge with 3 meters of the proofe-forcenge wi

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) PROFILES IN PRIMARY AND SECONDARY LANDFILL LEACHATES: INDICATIONS OF TRANSFORMATION, LINER INTERACTIONS, AND OTHER PFAS SOURCES Robey, N.M., Y. Liu, T.M. Tolaymat, J.A. Bowden, H. Solo-Gabriele, and T.G. Townsend. Journal of Hazardous Materials 494:138702 (2025)

This study measured PFAS concentrations in primary and secondary leachate and physical-chemical constituents such as chloride, ammonia, chemical oxygen demand, and metal from three municipal solid waste landfills utilizing double HDPE geomembrane liner systems. On average, physical-chemical parameter concentrations were significantly different between lessondary compared to the primary leachate, although PFAS concentrations were not significantly different between lessonate processes and a secondary leachate processes. The processes are secondary leachate processes are secondary leachates and 48 in secondary leachates. The PFAS concentrations in primary leachate ranged from 3,200-96,000 ng/L. The study explores possible explanations for the disproportionately high PFAS concentrations in secondary leachates. The PFAS concentrations are ingliny effective, PFAS migration through landfill lights. While limer systems are ingliny effective, PFAS migration through landfill lights. While limer systems are ingliny effective, PFAS migration through landfill lights.

PERMEABLE REACTIVE BARRIER TREATMENT OF 1,4-DIOXANE AND PFOA IMPACTED GROUNDWATER USING POWDERED ACTIVATED CARBON (PAC) ACTIVATED PERSULFATE Manz, K.E., F. Dunn, K. Anderson, A. Meservey, M. Apfelbaum, L. Hellerich, J.D Bryant, and K.D. Pennell. Remediation 35(4):e70038(2025)

A study evaluated a permeable reactive barrier that employs powdered activated carbon (PAC) to achieve both persulfate activation and adsorption to treat PFAS- and 1,4-dioxane- contaminated groundwater in situ. In column studies, persulfate activation using PAC was more effective than iron sources (pyrite, ferrilydrite, or FerroBlack), resulfating in degradation of both 1,4-dioxane and FFAS. 1,4-dioxane was readily oxidized, regardless of the activation source. No PFAS removal occurred in studies with iron-activated persulfate, whereas PAC activation of persulfate resulted in 99.9% expected with standard or aquifer materials and persulfate, resultated after the persulfate and sulfate anions were no longer detected in the effluent, indicating the PAC may have retained the capacity to adosor the co-contaminants. Findings suggest that PAC-activated persulfate treatment in permeable reactive barriers could be a viable method for remediating multiple groundwater contaminants and warrant further investigation in field-scale studies.

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PROBING THE MICROSCOPIC BEHAVIOR OF PFOS CLUSTERING AND ADSORPTION AT LNAPL INTERFACES; A PFOS-WATER-CYCLOHEXANE SYSTEM Larl, K.S., A. Reinhardt, A.C. Warden, J.L. Rayner, and G.B. Davis. Environmental Science & Technology

Molecular-dynamics simulations were used to study the behavior of supersaturated PFOS, focusing on micellization and partitioning at LNAPL-water interfaces. Large quantities of PFOS were adsorbed at LNAPL-water interfaces, suggesting that such interfaces may serve as major retention sites and long-term sources of PFOS contamination. Both adsorption and micellization were considerably affected by the counterions used (sodium and hydronium), suggesting a possible avenue for controlling the partitioning process through gaining a better understanding on PFOS. <a href="https://links.ars.org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/11/11/21/2as.est-5ct/1128/Profa-article_one-philicular-dynamics_org/doi/pit/1

ENHANCED SUSTAINABLE REMEDIATION OF CO-CONTAMINATED SOIL AND GROUNDWATER WITH LEAD AND ARSENIC UTILIZING THE WILLOW-VETIVER-PERMEABLE REACTIVE BARRIER SYSTEM YEPU, L., W. Guobing, J. Tao, Y. Ying, and G. Hongyan. Science of The Total Tenvironment 977:179343(2025)

A study investigated sustainable integrated remediation of Pb and As con-contaminated soil and groundwater pullising a combination of willow, vettiver grass, and permeable reactive burriers (PRBS). It demonstrated significant reduction in groundwater by and As concentrations, from 800 ing/L to Roselflevaceae, Intrasporangialeses deriversings and Germensis, and GSR 1031, exhibited Pb and As immobilization capabilities. In addition, GC-MS analysis and permeable reactive burriers and as immobilization capabilities. In addition, GC-MS analysis and permeable reduction in grant permeable reactive burriers (PRBS). It demonstrated as immobilization capabilities. In addition, GC-MS analysis and permeable reactive burriers (PRBS) and As immobilization capabilities. In addition, GC-MS analysis and permeable reactive burriers (PRBS) and As immobilization capabilities. In addition, GC-MS analysis and permeable reactive burriers (PRBS). It demonstrated solidation in addition, GC-MS analysis and permeable reactive burriers (PRBS). It demonstrated solidation in addition of the permeable reactive burriers (PRBS). It demonstrated solidation in addition of the permeable reactive burriers (PRBS). It demonstrated solidation in addition of the permeable reactive burriers (PRBS). It demonstrated solidation in addition of the permeable reactive burriers (PRBS). It demonstrates are permeable reactive burriers and permeable reactive burriers are permeable reactive burriers. It demonstrates are permeable reactive burriers and permeable reactive burriers are permeable reactive burriers. It demonstrates are permeable reactive burriers are permeable reactive burriers and permeable reactive burriers are permeable reactive burriers are permeable reactive burriers are

INTEGRATING CONTAMINANT SOURCE INDICATORS, WATER QUALITY MEASURES, AND ECOTOXICITY TO CHARACTERIZE CONTAMINANT MIXTURES AND PER- AND POLYFLUOROALKYL SUBSTANCE (PFAS) VARIABILITY IN AN URBAN WATERSHED Behrens, J.R., A.S. Joyce, P. Lee Ferguson, D.W. Kolpin, N. Jayasundara, N. Barbo, and E.S. Bernhardt. | Environmental Science & Technology 59(27):13958-13969(2025)

This article presents an integrative watershed approach using source-specific indicator compounds, common water quality measures, and ecotoxicity assays to examine the distribution of contaminant mixtures in an urbanized watershed. Indicator compound concentrations were temporally and spatially distributed for treated/untreated sewage, road runoff (diphenyl-quanidine (DPG) and 6PPD-Q concentrations correlated to road density during base flow and were elevated uring stormflow. AMPA was measurable spring through fall, especially where leavns were dense. When specific sources dominated flow, water quality measures, and awnorance runoff. DPG and 6PPD-Q concentrations correlated to road density during base flow and were elevated uring stormflow. AMPA was measurable spring through fall, especially where leavns were dense. When specific sources dominated flow, water quality measures correlated with wastevater (sulfate, potassium, choinde, and sodium) and road runoff (chromium and lead) indicators. The limited behavioral toxicity observed in exposed zebrafish. Danio ren/o) (18%) was not well explained by source indicators. PFAS concentrations were highly variable spatially but not well explained by source-specific indicator compounds. More costly compound-specific monitoring may be necessary when multiple sources exist or when unexpected toxicity threds occur.

SALT IONS AFFECT THE REMEDIATION OF CR(VI)-CONTAMINATED GROUNDWATER USING A SIMULATED PERMEABLE REACTIVE BARRIER FILLED WITH SULFIDATED NANO-SCALE ZEROVALENT IRON (S-NZVI) Journal of Environmental Management 387.125825(2025)

Experimental and computational approaches were employed in a study to investigate the performance of S-nzVI-based permeable reactive barrier (S-nzVI/PRB) reactors to treat Cr(VI) under background solutions with various salt ions. Results demonstrated 1.2-2.0 times higher Cr(VI) removal efficiencies with Ca 2+ and Mg2+ (introduced as CaCl2 and MgCp) compared to pure water and NaCl solutions. In contrast, C03²⁺ (introduced as Na2(C03) exhibited a strong inhibitory effect with a Cr(VI) removal capacity of only 34 mg/g, lower than the 104 mg/g observed in NaCl solution. Desired calculations revealed that different ionic species influenced the interaction between Cr(VI) and S-nzVI by occupying active adsorption sites and altering the free energy of intermediate reduction products. Findings deepen an understanding of how various ionic species in groundwater influence Cr(VI) removal by S-nzVI.

QUANTIFICATION OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) IN AIR EMISSIONS: AN INTERLABORATORY COMPARISON Hofman, J., B. Baeyens, W. Aerts, G. Jacobs, A. Reis de Carvalho, G. Van den Bergh, S. Voorspoels, and G. Otten. I Chemosphere 380:144449(2025)

An interiab comparison (ILC) was conducted on available monitoring methods for C4-18 PFAS in air emissions, evaluating method QA/QC, apparent spike recovery, and measurement uncertainty of 50 individual PFAS compounds (C4-18) between three Belgian and two international labs. In addition to confirming the validity of the recently published Belgian reference method and equivalence of the specified sampling train variants (OTM-45, OTM-45 variant and cooled probe), results provided insights in the retention potential of applied collection media (filler, XMD-2 and water), when belootlogical issues and analytically challenging PFAS compounds. By evaluating various sampling train variants and techniques, the study aims to provide crucial insights into the effectiveness, accuracy, and reliability of these methods in detecting PFAS in air emissions. Findings contribute to cross-boundary standardization of PFAS emission monitoring, which is currently a significant gap in both regulatory frameworks and scientific understanding.

Return to top General News ADSORPTIVE MEDIA SELECTION TOOL
Fuller, M., P. Hatzinger, F. Boodoo, E. McKenzie, and R. Suri. SERDP Project ER18-1027, 35 pp, 2024

An adsorptive media selection tool was developed to help water practitioners economically rank commercially proven technologies capable of reducing PFAS in water to acceptable single-digit levels. The tool provides very rough estimates of operating and capital costs when using either granular activated carbon, single-use ion exchange resin, or regenerable ion exchange resin. The tool is suitable for use with water qualities that range from potable and industrial types of sources with low to moderate levels of PFAS to the much higher levels typical of point source confirminated steats, The industrial steats, The industrial steat of the provided steats of the

SPECIATION OF AQUEOUS IRON AND ARSENIC FOR ASSESSING MECHANISMS OF ARSENIC ATTENUATION IN GROUNDWATER LI, T. I ACS ES&T Water 5(9):5523-5530(2025)

Characterization of the chemical species of arsenic and iron in groundwater is critical to diagnosing the cause of arsenic mobilization and assessing the potential for downgradient attenuation. A streamlined plan is reported to preserve and analyze aqueous Fe(II), Fe(III), As(III), and As(V). In succinic acid, both Fe(III) and Sa(III) assistable for 9 days, allowing adequate time for the analyses. The revised Fe speciation is based on the o-phenanthroline (o-phen) method, with limits of quantitation (LOQ) of 0.2 and 0.07 µM for Fe(III), respectively. This method can be loterate 100 x of Ca¹, 100 x of MR², 100 x

PFAS MONITORED RETENTION: A FRAMEWORK FOR MANAGING PFAS-CONTAMINATED GROUNDWATER SITES Adamson, D.T., C.J. Newell, P. Kulkarni, and H. Stroo. Groundwater Monitoring & Remediation 45(3):37-49(2025)

Direct application of monitored natural attenuation (MNA) to PFAS has been limited due to their inherent stability. However, the development of PFAS monitored retention (PMR) broadens the scope of MNA, incorporating an understanding of how retention processes, such as sorption, matrix diffusion, and precursor retention, help to mitigate PFAS mobility and mass discharge in the environment. This paper summarizes PMF, discussing its evolution from traditional MNA, key retention mechanisms, evaluation methodologies, and potential site-specific and broader applications. PMR offers a scientifically robust, economically viable approach for managing PFAS-contaminated groundwater sites when immediate threats to receptors are absent or as an interim remedy pending the development of cost-effective in situ destruction technologies. Ministry/Indua unfinitely/Indua unfinitely/Indua.

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 and Emergency Management at adam. michael@epa.gov or (703) 398-4268 with any comments, suggestions, or corrections.

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