Contaminated sediment projects are complex and require multi-disciplinary teams with expertise in every phase of the project lifecycle. Understanding the fate and transport of chemicals in sediment requires core skills in chemistry, geochemistry, hydraulics, and geomorphology, with the added complexity of spatial and temporal variability and a changing climate.

Accurate assessments of human-health and ecological risks to support risk-based decision making depend on the identification and assessment of important exposure pathways, the sensitivity of receptors, the toxicity of contaminants of concern, and the impacts of other environmental stressors. These complexities place even greater importance on building multi-disciplinary teams to develop holistic conceptual approaches to contaminated sediment projects, which require strong client-focused teams with exceptional strategic, communication, and advocacy skills.

Applying sound science and engineering to develop innovative solutions for managing risks in complex environmental systems.

THE EHS SUPPORT ADVANTAGE

EHS Support provides a comprehensive array of services to meet our client needs**.** We focus first on effective scoping and a strategic vision from which teams of technical specialists can be efficiently directed and best advocate for our clients. Here, success is measured not by agency approval of the final remedy, but by a combination of factors, including the financial impact to the parties involved.

SITE INVESTIGATION

Developing a robust conceptual-site model and data-quality objectives (DQOs) are critical to designing and implementing an efficient site-investigation program that reduces uncertainty and allows for confident decision-making. Specialized equipment, collection techniques, and field strategies are critical to the implementation of sediment sampling programs. EHS Support's sampling services include:

- Low- and high-resolution core sampling
- Thermal imaging surveys
- Bioavailability assessments and pore-water sampling
- Biological tissue sampling
- Sediment Quality Triad (SQT) investigations

OUR STRATEGY

HUMAN-HEALTH & ECOLOGICAL RISK ASSESSMENTS

We specialize in developing human-health and ecological risk assessments based on site-specific conditions that influence contaminant bioavailability and toxicity. Key areas of expertise include risk assessment of trace metals, mercury, PAHs, PCBs, dioxins, and pesticides.

NATURAL RESOURCE DAMAGE ASSESSMENT

We leverage our knowledge and experience from the site-investigation and risk-assessment phase to provide technical support on Natural Resource Damage Assessment (NRDA) claims. Key services include the implementation and oversight of studies to support injury quantification and the identification and selection of compensatory restoration projects.

REMEDY SELECTION, DESIGN, AND IMPLEMENTATION OVERSIGHT

Our scientists and engineers are focused on developing site-specific, risk-based criteria that can be integrated into practical, protective, and appropriately scaled remedial strategies that lead to regulatory closure. Defining goals based on chemistry, bioavailability, and site-specific risks to relevant receptors is critical to successful, cost-effective sediment remediation.

SOURCE IDENTIFICATION AND ALLOCATION

Historical research allows us to develop a robust understanding of the site, industrial operations, and other potential local and regional sources. Understanding the processes and chemistry ensures investigations and tools are effectively scoped and selected to identify sources and evaluate the contribution to impacts and risk.

EHS Support delivers specialized technical services to provide our clients with innovative and cost-effective solutions for sediment assessment and remediation. Visit us online: www.ehs-support.com

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