

Remediation Technical Support



IEc provides remediation consulting services tailored to address the unique needs and interests of EPA's partners (e.g., Tribes, states, and federal agencies) throughout the hazardous waste site cleanup process. Staff expertise includes risk assessment, contaminant and natural resource evaluations, remedial technologies and sampling methods, Superfund/CERCLA policy, and regulatory support.

OUR SERVICES

- Inform and communicate clients' positions on technical and procedural elements of the remedial process, from site listing through remedy construction and monitoring.
- Distill large volumes of highly technical information, focusing on topics most relevant to clients' priorities.
- Review and provide comments on technical documents, including work plans, risk assessments, remedial investigations and feasibility studies (RI/FS), proposed plans, engineering evaluations/cost analyses (EE/CAs), and source control evaluations.
- Provide technical expertise on issues related to cleanup standard development, alternatives evaluation, and remedial technology assessment, including dredging, capping, and disposal alternatives (e.g., confined disposal facilities [CDFs] and confined aquatic disposal [CAD] cells).
- Prepare briefings and materials for technical meetings with partners including EPA's National Remedy Review Board and Contaminated Sediments Technical Advisory Group.
- Provide assistance for government-to-government consultations (highlighted on back page).
- Serve as a link between remediation and natural resource damage assessment (NRDA) processes.

PROJECT EXAMPLES

For the Grand Ronde, Nez Perce, Siletz, Umatilla, and Warm Springs Tribes, IEC provides technical support on the Portland Harbor Superfund Site in the context of the Feasibility Study, review by EPA's National Remedy Review Board and Contaminated Sediments Technical Advisory Group, government-to-government consultations, and Proposed Plan.

IEc supports the United States Department of the Interior's (DOI) Remedial Investigation activities at a site extending across the jurisdictions of multiple DOI agencies. We coordinate elements of the human health and ecological risk assessments, conduct technical review of site-related work plans and data, and support DOI's communication and public outreach efforts.

Remediation Support: Government-to-Government Consultations

Government-to-government consultations offer a critical opportunity for Tribes to provide feedback to federal agencies on upcoming decisions. Consultations are intended to facilitate communication between Tribes and federal agencies with a goal of enabling federal agencies to consider the concerns of federally recognized Tribes before making key decisions. Even when regular project communication occurs between a Tribe and federal agency, a consultation may be beneficial in that it typically involves Tribal and federal agency leadership, rather than project-level staff.

WHAT CAN IEc OFFER?

IEc helps Tribes determine whether a consultation would be beneficial for a specific federal decision. We are experienced at guiding Tribes through the process of requesting a consultation and communicating what to expect from the consultation process. Our experience indicates that consultations are most effective when Tribes have the most up-to-date technical information. We focus on sharing and interpreting technical information for the purpose of informing and supporting Tribal positions on important environmental actions.

To prepare Tribal leadership for consultations, we deliver in-person, interactive presentations. IEc's presentations to Tribes are most often a mutual exchange of information, with Tribes highlighting their concerns and questions. As needed, we follow up these meetings with research to address specific Tribal concerns and questions, as well as development of a fact sheet that highlights key technical issues and that is tailored to Tribes' expressed interests. Our presentation materials and fact sheets have proven to be useful tools to support successful consultations.

KEY IEc STAFF AND FREQUENT COLLABORATORS



Gail Fricano, Senior Associate, has 17 years of experience in assisting Tribal, state, and federal clients on complex environmental projects. She has supported clients on a diverse range of hazardous waste sites throughout the country. Her specialties include technical, policy, and regulatory issues related to site remediation, natural resource damage assessment, habitat restoration, dredging, and dredged material disposal. She regularly provides critical review of remedial technical documents and has prepared several Tribes for government-to-government consultations with EPA on Superfund site decisions.



Rachel DelVecchio, Principal, specializes in the science behind assessments of environmental degradation, remediation, and restoration. For over 19 years she has assisted federal, state, and Tribal clients at dozens of hazardous waste sites with critical review and application of technical information, while accounting for client priorities and site-specific considerations. She works to maximize coordination and information exchange between stakeholders across varying regulatory frameworks through internal and public briefings, inter-agency discussions, and government-to-government consultations.



Dr. Rita Cabral, Associate, regularly applies her strong physical sciences background to support hazardous waste site evaluations and natural resource damage assessments across a wide range of contaminants, media, and geographies. Her work has included preparation of briefing materials to support government-to-government consultations and meetings with EPA's National Remedy Review Board and Contaminated Sediments Technical Advisory Group.



Dr. Thomas Fredette, Independent Consultant, pioneered techniques related to dredged material management, including capping, CAD cells, and multidisciplinary environmental monitoring in his nearly 30-year career at the United States Army Corps of Engineers.



Ken Hickey, President of HydroAnalysis, Inc., has over 20 years of experience designing and conducting marine water quality and sediment investigations including contaminated sediment investigations focused on site characterization and remediation in New Bedford Harbor, the Passaic River, and other water bodies.



Dr. Peter Shanahan, P.E., Founder and Principal of HydroAnalysis, Inc., has extensive experience in the modeling, investigation, and design of remedial actions for contaminated ground water and soil at hazardous waste sites, frequently serving as an expert witness.