The LANGAN Leader

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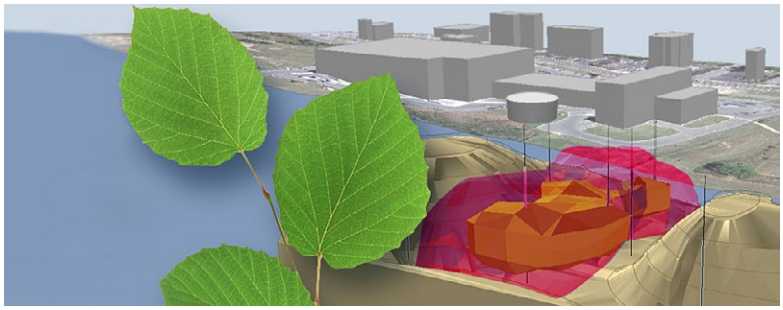
Sustainable Remediation

Cleaning *and* Greening the Environment



Looking for a literally green, low-tech solution for a site impacted with chlorinated solvents and coal tar constituents? Try planting 120 willow trees! That's what Langan did on a large former chemical manufacturing site. The "tree wells"—more properly known as vegetative pumping—are part of a sustainable remedial solution that includes solar-powered extraction wells to prevent the migration of groundwater moving through contaminated soils. By avoiding conventional mechanical pump and treat systems in favor of natural elements like trees and the sun, Langan helped reduce the cost of remediation and lowered the overall carbon footprint on the project.

Beyond purely natural and sustainable solutions, remediation technology comes in many forms, and Langan is a leading advocate for alternatives to traditional excavation and hauling. In fact, we play an active role in industry trade groups such as ITRC and SURF, where the latest technologies are discussed and developed. Innovative methods we have used include in situ ("in-place") technologies such as chemical oxidation, thermal injection, pneumatic fracturing, zero-valent iron remediation, and solidification/stabilization. Langan cost-effectively deploys these techniques for property owners and corporations in the aerospace, petrochemical, pharmaceutical, manufacturing, and utilities industries with contaminated assets, as well as developers seeking to redevelop brownfields around the country.

We also apply sustainable remediation to large federal projects. For example, at Hunters Point Naval Shipyard in San Francisco, Treadwell & Rollo, a Langan company, is supporting the investigation and clean-up of numerous parcels at this 638 acre site, which is part of the Base Realignment and Closure (BRAC) program. Working with the City of San Francisco, we are overseeing myriad remediation techniques, including zero-valent iron remediation, soil vapor extraction systems, soil capping for reduction of risk to human health, shoreline revetment, in situ bioremediation, and thermal remediation. Such a mix of solutions demonstrates the scope of Langan's capabilities with respect to sustainable remediation, while also indicating a significant differentiator for the firm's nationwide success.

"We possess the technical expertise and nationwide footprint to serve major clients anywhere in the country and beyond, but at the end of the day what sets us apart is our willingness to understand the unique challenges confronting each client, each site, not just environmentally, but also from a financial and schedule perspective," said Stew Abrams, Senior Associate and Director of Remediation Technology at Langan. "We listen to our clients and strive to remediate problems as presented, rather than force-fitting the latest technologies to a site. We find the right balance between practicality and science, as well as between economics and sustainability, which means we help our clients do the right thing, the right way."