Remediation

Disposal Minimization Strategies for Metals and TPH Impacted Soil for a 240-acre Railyard Redevelopment Project

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The 240-acre (97 hectare) former SPTCo Sacramento Railyard in Sacramento, California, started as the western terminus of the transcontinental railroad and operated as a large-scale industrial facility for over 130 years. The foundry, fueling, and industrial activities resulted in more than 1,000,000 cubic yards (760,000 cubic meters) of soils requiring excavation. The primary constituents of concern in soil are lead and various other metals, petroleum hydrocarbons, volatile organic compounds, polynuclear aromatic hydrocarbons, and asbestos. The project team developed an effective set of regulatory, land-use, treatment, and technical management strategies that maximize the volume of soil retained for onsite re-use and minimize the cost of offsite disposal. These strategies include: coordination of future land-use with clean-up objectives, approval of a 230,000 cubic yard (176,000 cubic meter) on-site consolidation area for soils containing inert materials and asbestos, ex-situ lead stabilization, land farming, and sitespecific risk-based criteria for on-site soil reuse. The presentation will cover lessons learned about coordination with redevelopment, challenges and successes with soil treatment, regulatory negotiation and change management, and information management methods for large programs.