

## Mercury Site Strategies



AECOM has extensive experience in evaluating mercury at various sites

### Areas of Expertise

- Remedial investigation work plans
- Mercury speciation analysis
- Mercury remediation strategy/plan development
- Risk assessments
- Fate and transport analysis
- Bench-scale treatability tests – soil, groundwater
- Monitoring plans
- Soil and groundwater sampling
- Vapor intrusion assessments
- Soil geophysical testing
- Bioventing and biosparging
- Pilot studies

### Overview

Because site-specific conditions can significantly affect the behavior of mercury in the environment, effective speciation testing is critical to ensure an accurate understanding of the risks associated with this element. AECOM's speciation assessments of mercury concentrations in soil and groundwater give our clients a thorough understanding of the various forms and characteristics of mercury at specific sites. AECOM uses a range of speciation tests, such as EPA Method 3200 and a selective five-step sequential extraction procedure to determine the form of mercury present in soil and groundwater. The team then constructs models to establish the probable risks associated with mercury in soil, groundwater and soil gas.

AECOM has also used synthetic precipitation leaching procedure tests to predict the leachability of mercury from site soils to groundwater to help develop cleanup goals.

With a thorough understanding of site-specific mercury concentrations, AECOM creates a conceptual site model to devise realistic mercury cleanup criteria for an appropriate site remedy.

### Client Benefits

- Understanding of the true site-specific risks of mercury in soil and groundwater
- Risk-based mercury cleanup criteria
- Appropriate cleanup goals protective of human health and the environment
- Remedial action cost savings
- Liability reduction

