



# Comprehensive Decommissioning Stewardship Support

*Decommissioning of assets is complex. TestAmerica's national network of laboratories provides comprehensive environmental testing support for our clients.*

TestAmerica's comprehensive program for Decommissioning asset retirement obligations includes the following elements:

**Hazardous Material Identification and Assessment:**  
During decommissioning, the project can encounter constituents of potential concern in the environmental media and in the building material/debris. A representative sample and sub-sampling are critical for any project during the collection, generation, and subsequent analysis of samples to minimize the bias and variance in the characteristics of the sample.

TestAmerica has extensive experience with appropriate and effective sub-sampling techniques for a wide range of challenging matrices.

For subsequent analysis, TestAmerica utilizes U.S. EPA's SW-846 Methods as the basis of our SOPs. We support the analysis of the Constituents of Potential Concern (COPCs) which can include volatiles, semi-volatiles including PAHs, pesticides, PCB Aroclors, metals, and petroleum products using GRO, DRO & ORO and other analytical methods.

## **TSCA Support for Polychlorinated Biphenyls (PCB) Aroclors Analysis:**

TestAmerica supports the chemical extraction of environmental samples utilizing various SW-846 methodologies and the subsequent analysis for PCB Aroclors by Method 8082 as stated in TSCA. TestAmerica supports Method 3540C (Soxhlet), Method 3550B (Sonication), Method 3546 (Microwave) and Method 3541 (automated Soxhlet). The QAPjP must be developed in conjunction with the laboratory with specific extraction and analytical methods approved by the state and/or federal regulatory agencies for the decommissioning project.

Our experience has consistently demonstrated that SW-846 Method 3540C (Soxhlet), along with creating the appropriate and representative sub-sample of the matrix of concern, is the 'gold standard' to support the varied and complex matrices required to be analyzed for PCB Aroclor analysis for decommissioning projects.

# TSCA support for PCB Aroclor analysis may include the analysis of materials such as . . .



## Ambient Air Analysis for PCB Aroclors

During decommissioning, fine particles of debris potentially containing PCBs can become airborne, creating potential exposure issues for workers and nearby communities. A combination of personal exposure measurements and residential ambient air measurements may be necessary to assess the impact on personal exposures and ambient concentrations in and around the decommissioning project.

Techniques which can be employed for the ambient monitoring of PCBs:

- Compendium Method TO-4A is a "high volume" test method that typically uses fixed sampling stations that require a continuous power source. Samples are collected at the perimeter of a project over a 24-hour period, after which the sorbent is returned to the laboratory for analysis.
- Method TO-10A is a "low volume" test method. Use of a portable, low volume Poly Urethane Foam (PUF) sampling system allows the user flexibility in locating the apparatus, including stationary/mobile locations.
- Another technique that is specifically used for personnel exposure monitoring for PCBs is NIOSH Method 5503. The NIOSH 5503 sampling media is comprised of a glass fiber filter and a florasil tube. The portable sampler is typically attached to the worker and air is forced across the media.

## Asbestos Containing Material (ACM)

Decommissioning can require an Asbestos Management Plan prior to the startup of any decommissioning project to verify the presence or absence of ACM. TestAmerica's subsidiary, **EMLab P&K** has NVLAP-accredited labs across the U.S. to support the analysis of asbestos in a variety of matrices.

EMLab P&K supports air personnel monitoring for Asbestos by NIOSH 7400 - Phase Contrast Microscopy (PCM) and NIOSH 7402 - Transmission Electron Microscopy (TEM).

## Lead Based Paint

TestAmerica is accredited by the Environmental Lead Laboratory Accreditation Program (ELLAP). We can support the analysis of lead in environmental samples including paint, soil, dust wipes, composited wipes, and air.

## Waste Characterization

Waste materials can be generated as a result of decommissioning activities. These materials may need to be characterized prior to disposal in a RCRA Subtitle D, RCRA Subtitle C or TSCA disposal facility. TestAmerica can perform the required waste characterization analysis for the appropriate disposal option.

## Environmental Site Assessments

TestAmerica can supply clients with Environmental Site Assessments, which support the final divestiture strategy for the site. This support includes addressing the potential impacts to soil, groundwater, and sediment from historical discharges and leaks at the site, and allows the project team to delineate impacts as well as risk assessments to identify any remediation areas.

## TestAmerica's Technical Points of Contact

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