



*Intelligent Waste Solutions.*

WESKEM uses a systematic approach to waste characterization and profiling. WESKEM has developed and maintains profiles for over 50 waste streams at several TSDFs around the country.

Waste characterization is mandated by state and federal regulations to ensure proper classification, handling, storage, and disposition of waste to appropriate treatment, storage and disposal facilities (TSDFs). Disciplined characterization planning is very important because improper planning can lead to costly re-work and delays.

WESKEM has extensive proven expertise in developing comprehensive waste sampling and analysis plans for a multitude of waste types to ensure compliance with regulatory requirements and TSDF waste acceptance criteria (WAC). All WESKEM sampling and analysis plans (SAP) are tailored to the specific waste streams generated by each project to ensure all waste acceptance data of the receiving TSDF are met in the most efficient manner. WESKEM collects, evaluates, and qualifies data and completes records for each waste stream utilizing process knowledge to the maximum extent possible, to minimize sampling and analytical costs.

WESKEM evaluates all current WACs of anticipated disposition facilities and structures the characterization plan as necessary to ensure compliance. Utilizing the Data Quality Objectives (DQOs) and statistical sampling requirements established in the project characterization plan, WESKEM prepares waste stream-specific SAPs based upon EPA-SW846 protocols and receiving TSDF WAC requirements.

SAPs include, but are not limited to:

- items to be sampled and surveyed,
- survey and sampling methodology,
- sample bottle labeling,
- sample quality control,
- log keeping and chain of custody,
- analyses and analytical methods, and
- decontamination procedures.

The Waste Characterization Plan specifies that waste materials known or suspected of containing Resource Conservation and Recovery Act regulated waste materials are individually sampled. This is to confirm chemical and radiological contamination levels (except in the case of sealed items, such as batteries).

Prior to initiating field-sampling activities, WESKEM typically establishes a sample management database for the project and populates it with required data. Once samples are taken, they are recorded in the field logbook. Following field logging, samples are packaged, labeled and shipped to an approved laboratory with analytical protocol and sample handling instructions.

Once analyses are completed, 100% of the data is verified. Data validation is accomplished using a graded approach dependent upon client requirements and project needs. Data is loaded into an analytical database with validation codes. From this information, the data is available to complete waste population determinations and profile development.

Waste characterization data allows TSDFs to manage waste in a manner that terminates the future responsibility and liability of the waste generator. Wastes that meet the WAC are then profiled for the TSDF and the profile submitted to the facility for review and approval. Approval of the profile and a notice to transport the waste from the TSDF authorizes the generator to schedule and ship waste for treatment and/or disposal at the facility. WESKEM has developed and maintains profiles for over 50 waste streams at several TSDFs around the country.

WESKEM can help you achieve your waste management goals in a safe, compliant and cost effective manner. For more information, contact Andrew Smith, President at (865) 576-0079 or email: [asmith@weskem.com](mailto:asmith@weskem.com). Please visit us at: [www.weskem.com](http://www.weskem.com).