Jordan Water Reuse & Environmental Conservation Project (Samra Sludge)

**Background & Project Challenges**

The project goal was to evaluate the geotechnical properties, especially shear strength, of biosolids for the purposes of designing a biosolids monofill for a waste water treatment plant in Jordan.

**GeoTesting Role & Accomplishments**

GTX was able to successfully:

- Import samples of contaminated foreign soil (biosolids)
- Handle the material in a specially designed “clean room”
- Perform specialized testing on the material

The testing consisted of:

- Index tests
- Permeability
- Direct Simple Shear (DSS)
- Unconsolidated Undrained (UU) triaxial
- Consolidated Undrained (CU) triaxial in both compression and extension
- Incremental consolidation

GTX provided these specialized testing services in a timely manner.

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For More Information Contact:

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Client: AECOM
Location: Amman, Jordan
Services Provided:
- Import of foreign soil
- Specialized testing of foreign and contaminated soils (biosolids) and sludge

Value Provided:
- Helped the client understand the shear strength behavior of the material
- Achieved a stable condition with the design slopes of the monofill

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Laboratory reconstituted specimen

Specimen in triaxial extension test