

Jordan Water Reuse & Environmental Conservation Project (Samra Sludge)

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

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

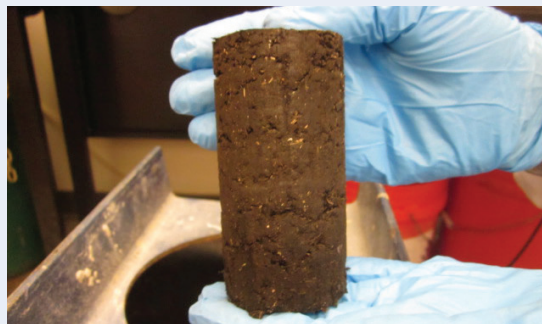
GTX was able to successfully:

- Import samples of contaminated foreign soil (bosolids)
- 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.



Laboratory reconstituted specimen



Specimen in triaxial extension test