

Markets Served

- Municipal Solid Waste
- Residual Waste
- Construction & Demolition Debris

Design & Permitting Services

- Hydrogeological Site Investigations (Site Characterization)
 - ◆ Design of Landfills & Facilities
 - ◆ Composite Liner Systems
 - ◆ Leachate Collection and Recirculation Systems
 - ◆ Surface Water Run-On and Run-Off Control
 - ◆ Slope Stability Analyses
 - ◆ Operations (Phased Development) Plans
 - ◆ Composite Cover Systems
 - ◆ Permitting Services
 - ◆ NPDES Permits (Surface Water Discharge)
 - ◆ 401 and 404 Corps of Engineers Permits
 - ◆ Air Emissions

Monitoring Plans and Sampling Services

- Groundwater Monitoring
- Explosive Gas Active Extraction Plans
- Explosive Gas Monitoring
- Final Closure/Post-Closure Monitoring

Construction Observation, Testing, and Documentation Services

- Two-stage Borehole Field Permeability (Boutwell) Testing
- Field Nuclear Density/Moisture Testing of Cohesive Soils
- Documentation of Synthetic Liner Installation
- Construction Documentation

Bowser-Morner can also assist clients in their analysis of business and market factors affecting proposed projects.

- ◆ Provide information and options from various perspectives, including cost and liability (public meetings, zoning, etc.);
- ◆ Analysis of market conditions and comprehensive market planning, including existing competitor facilities and potential customers; and ...
- ◆ Computer generated analysis of projects to develop possible costs with proposed revenue (established following detailed market plan.) This financial analysis, based on detailed market planning, will help predict cost effectiveness of a proposed project.

With Bowser-Morner you can be assured that a quality and safety-conscious company is supporting your landfill projects.

- ◆ Comprehensive QA/QC Program.
- ◆ Our Quality Program for Geotechnical and Construction Materials Laboratories meets or exceeds the requirements of AASHTO Materials Reference Laboratory (AMRL) R-18 Specifications, and is **ISO/IEC 17025** accredited.
- ◆ Bowser-Morner has instituted a Safety Policy and a Health and Safety Plan. Our staff members have received 40 hours of safety training in accordance with the OSHA requirements in 29CFR 1910 and we have worked at Superfund sites involving Level "D" through Level "B" personnel protection.

For more information concerning our landfill consulting services, you can visit our web site at www.bowser-morner.com, e-mail: sales@bowser-morner.com, or phone **Pat Loper 937-236-8805 Ext. 313**.



**BOWSER
MORNER**

Committed to Excellence Since 1911

Landfill Consulting Services

- ◆ Engineering Services
- ◆ Field Observation and Documentation Services
- ◆ Geotechnical Soils Testing Laboratories
- ◆ Construction Materials Laboratories
- ◆ Subsurface Exploration Services
- ◆ Analytical Laboratory Services
- ◆ Groundwater Sampling
- ◆ Explosive Gas Monitoring

Bowser-Morner provides service on a variety of projects including landfill siting, design, construction, operations, closure and post-closure activities.

Our experienced engineers and field technicians can assist you through the various phases of landfill construction such as observation, testing and documentation of soils, installation of geosynthetics, leachate collection systems, explosive gas extraction/monitoring systems, and ancillary landfill structures.

Bowser-Morner's Geotechnical and Construction Materials Laboratories specialize in physical testing of soil and construction materials. Testing is performed by experienced and trained technicians using recognized test methods that follow standards specified by ASTM, ANSI, AASHTO, and the U.S. Army Corps of Engineers (EM1110-1-1906).

Our rigs, support trucks and equipment, including our SONIC technology, permit fast and easy penetration in most geologic formations.

And, we offer analytical testing services as well, including water quality assessments, hazardous waste characterization, waste stream analysis, groundwater monitoring, sludges, solid waste, and environmental impact studies.



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Landfill Consulting Services



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