

Geotechnical & Related Engineering Services

Bowser-Morner's Engineering Departments offer a variety of services. Our qualified and experienced engineers perform hundreds of projects each year related to civil, geotechnical, and geological and mining concerns.

Among many other types of work, our experienced engineers provide consulting engineering services for:

- ◆ Shallow, Deep, and Special Foundation Designs
- ◆ Pavement Design
- ◆ Grading and Drainage Plans and Designs
- ◆ Field Construction Observations
- ◆ Slope Stability Studies and Remediation Designs
- ◆ Shoreline Protection Designs
- ◆ Dam Designs, Inspections and Remediation
- ◆ Residential and Sanitary Waste Disposal
- ◆ Foundation Failure Investigations
- ◆ Mine Subsidence Investigations
- ◆ Surface Mine Reclamation
- ◆ Seismic Evaluations/Earthquake Engineering
- ◆ Karst Studies/Sink Hole Remediation
- ◆ Large-Span Corrugated Pipes
- ◆ Permitting (US Army Corp Eng. Section 10, 401, 404, Wetlands and Environmental)
- ◆ Other Geotechnical Areas

Our engineering departments are supported by:

- Geotechnical and Construction Materials Laboratories specializing in the physical testing of soil and construction materials. Testing is performed using recognized test methods that follow standards specified by ASTM, ANSI, AASHTO, and the U.S. Army Corps of Engineers (EM1110-2-1906).

- A Subsurface Investigation Department with a fleet of rigs, support trucks, and equipment that can go virtually anywhere.



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Geotechnical Engineering & Consulting Services



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Committed to Excellence Since 1911

www.bowser-morner.com

GEOTECHNICAL ENGINEERING

It's a basic building block of construction: a structure is only as solid as its foundation. That's why, before any construction on a site begins, a geotechnical study should be performed to determine soil properties, groundwater levels, and behavior under changing stress conditions that may occur due to building loads, earthquakes, settling, fast-moving traffic, wind, or wave action.

Your geotechnical study will take into account:

- ◆ Your Project Goals/Objectives
- ◆ Site Conditions
- ◆ The Nature of the Structure
- ◆ The Size and Weight of the Structure
- ◆ Planned Site Improvements



Our geotechnical engineers evaluate these factors and prepare a detailed report on the soil conditions, suitable foundation types, and what needs to be done to get the site ready to build on.



Bowser-Morner's geotechnical teams have conducted thousands of soil studies related to foundation designs for:

- ◆ Commercial Office Buildings
- ◆ Manufacturing Plants
- ◆ Bridges, Roadways and Highways
- ◆ Large-Span Corrugated Pipes
- ◆ Hospitals
- ◆ Government Facilities
- ◆ Towers
- ◆ Retail Facilities
- ◆ Residential Construction
- ◆ Airport Taxiway, Runway and Apron Pavement



Our project team consists of experienced, talented geotechnical engineers licensed throughout the east-central United States. They are supported by geologists, hydrogeologists, and civil and agricultural engineers.



Our geotechnical teams provide value-added services for:

- ◆ Corporations
- ◆ Government Agencies
- ◆ Other Engineering Firms
- ◆ General Contractors
- ◆ Architects
- ◆ Planners
- ◆ Individuals



We provide the quality and depth of services that are so important for the success and stability of your project, not an abbreviated evaluation to cut costs, which is only an invitation to unsatisfactory results.

Once you have our foundation recommendations, let the construction begin! Of course, if any other questions about your site or the construction come up, you'll know who to call: the Bowser-Morner Team who has been with you from the start. At your request, Bowser-Morner can provide one or more of these services: the preliminary site observations, subsurface study, soil analysis, engineering report, construction observation and monitoring the construction, and can address other concerns until your project is completed.



For more information concerning our geotechnical engineering and consulting services, please visit our web site at www.bowser-morner.com; e-mail sales@bowser-morner.com; or call **Richard Tseng, Ph.D., P.E. 937-236-8805 Ext. 279** in Dayton, OH; **Dick Hoppenjans, P.E. 419-691-4800 Ext. 228** in Toledo, OH; or **Charles Bishop, P.E. 859-233-0250** in Lexington, KY.

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