UNDERWATER ENGINEERING & INSPECTION

Part of a diversified family of solutions

jmt.com
JMT is a multidisciplined engineering firm that offers a full array of architectural, engineering, and related services to clients throughout the United States. Our client base consists of federal, state, and local government agencies, as well as private institutions, commercial, and industrial concerns.

JMT conducts investigations and inspections above and below water to assess the structural integrity of assets with underwater components.
Inspect to Protect

Underwater inspection is one part of our full-service bridge inspection offerings. Extending the useful life of a facility is much more economical when an inspection is conducted routinely. JMT provides professional, reliable, and cost-effective options to inspect and design underwater infrastructure, such as:

- Bridges
- Piers
- Ports & Terminals
- Locks & Dams
- Tunnels & Culverts
- Confined Spaces
- Water Treatment Facilities
- Bulkheads
- Power Plants
- Pipelines & Power Cables
- Storage Tanks
- Shipping Industry
- Pile Testing
- Ultrasonic Thickness Measurements

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Engineering

Many of our divers are also registered professional engineers, allowing us to design solutions based on personally-observed conditions. Typical engineering services include:

- Structural Evaluation
- Design & Rehabilitation
- Maintenance Programs
- Cathodic Protection
- Construction Plans & Specifications
- Construction Management Support
- Feasibility Studies
- Site Development
- Buildings & Foundations
- Structural Evaluation & Design

Diving

JMT’s commercial divers possess the knowledge and equipment to review and evaluate the structural integrity of underwater assets. Our divers are educated in state and federal requirements. They are qualified to work in confined spaces and perform underwater penetration in accordance with OSHA regulations.

Our capabilities include:

- Condition Surveys
- Scour Evaluation
- Marine Borer Investigation
- Measurements
- Material Testing
- Concrete & Timber Cores
- Underwater Construction
- Construction Compliance
- Hydrographic Surveys
- High-Resolution Laser Scanning
- Underwater Video/Digital Photography
- Remote Operated Vehicle
- Hard Wire Communications
- High Mobility in Difficult Access Areas
- Confined Space & Penetration
- Construction Inspection

Inspection

Many different inspection and testing methods are available, depending on the structure configuration or specific problem being addressed. Our inspectors typically gather data related to the presence of void, holes, impact damage, loss of section, displacement, missing elements, previous repairs, scour, erosion, loss of fill, marine growth, marine borers, and debris.

The subaqueous portions of any structure receive a visual and tactile inspection by the engineer/diver inspectors. The type, size, location, conditions, and rated information (if applicable) of the designated structure are documented and set forth in an inspection report.

Based on the inspection findings, construction plans, specifications, cost estimates, and/or maintenance programs can be prepared for improvement of the facility.
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Offices strategically located throughout the United States