

MIC/Biofouling Testing & Analysis

MDE's engineers and technical experts collaborate to offer microbiologically influenced corrosion (MIC) and biological fouling testing/analysis of residential, commercial, industrial, and fire protection water systems. By offering testing and analysis experts under one roof, MDE's services are low cost with quick turnaround times. Our areas of expertise include:

MIC Testing and Analysis

- Complete microbiologically influenced corrosion (MIC) assessment
- Water chemistry analysis to determine "aggressiveness" for a system's materials
- MIC bacteria (sulfate-reducing, acid producing, nitrate-reducing, iron/sulfur oxidizing)
- Deposit characterization

Biological Fouling Testing & Analysis

- Total aerobic and anaerobic bacteria
- Fungi
- Slime-forming bacteria
- Total coliform bacteria
- Iron/manganese depositing bacteria
- Microbial identification

Metallurgical Evaluation

- Identify all forms of corrosion and/or mechanical degradation
- Field examinations
- Destructive and non-destructive testing
- Comprehensive metallurgical laboratory analysis
- Quality of materials
- Quality of construction
- Remaining pipe wall thickness evaluation
- Piping system design and manufacturing quality assessment

MDE Test Kits

- All required sterile containers for liquid or solids
- Sampling instructions
- Return shipping containers
- Quick turnaround
- Complete MDE Forensic Laboratories analysis of your samples
- Peer-reviewed analytical report

Consultation Project Management and Mitigation Support

- Recommendations from experts in the field
- Technical expert consultation services
- Project management
- Large loss expert coordination

