

### The MIC Myth

Bacteria can be found in all fire sprinkler systems and the fire sprinkler industry has focused on MIC as if it were the primary cause of corrosion in sprinkler system piping. ECS analyzes hundreds of water samples per year and over 75% yield high levels of bacteria, but there is no correlation between the amount of bacteria measured and the number of leaks that occur.

A pipe sample analysis provides much more valuable data when analyzing corrosion in fire sprinkler systems.

### About ECS

ECS provides products and services to manage corrosion in fire sprinkler systems. Products include nitrogen generators, wet and dry system vents, and corrosion monitoring devices. Services include analytical testing, corrosion assessment and pipe replacement recommendations, project commissioning, and training.

### Pricing

Please email or call :  
sales@ecscorrosion.com  
(314) 432-1377



Left: tubercule on galvanized pipe from dry system  
Right: corrosion deposits on black steel in wet system

Evaluate internal  
condition of fire  
sprinkler system  
piping to determine  
cause, extent, and  
severity of corrosion

## The preferred analytical tool for corrosion

The preferred tool for assessing corrosion in a fire sprinkler system is a pipe sample analysis. ECS provides evaluation and analysis of corroded fire sprinkler piping to investigate both cause of the metal loss and useful remaining service life data.

The analysis requires a fire sprinkler service provider to remove a corrosion damaged section of piping. A previously removed pipe section, often due to failure, may also be submitted for analysis. Inspection of the sample identifies the type of corrosion, remaining pipe wall thickness and pit depths, and determines the most likely chemical composition of any deposits found in the pipe sample.

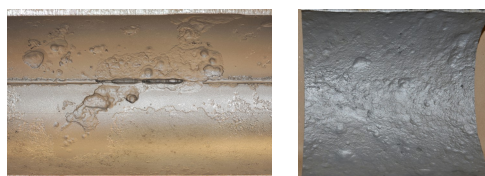
Analysis results are accompanied by a report providing the most likely cause of corrosion and/or failures, customized remediation and prevention recommendations, and pictures of the sample.

### Pipe Analysis Features

- Sample is sectioned and cleaned to remove solids and allow visual inspection
- Inspection and analysis determines type of corrosion, remaining pipe wall thickness and calculated corrosion rate (mils per year)
- Comprehensive analysis report includes photographs before and after media blasting

### Pipe Analysis Benefits

- Most cost effective method of corrosion analysis for fire sprinkler systems
- Provides hard data regarding root cause and severity of corrosion activity
- Integral for pipe replacement recommendations based on wall loss measurements



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Corrosion  
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