

Why did this pipe fail?

This analysis is available for identification of the corrosion/ failure mechanism, i.e. pitting corrosion, stress corrosion cracking, microbiologically influenced corrosion, galvanic corrosion, etc. of failed sprinkler pipe. The analysis involves removing a section of the the failed pipe from the fire sprinkler system and sending to a certified third party lab for testing. Material flaw/quality evaluations will be made to determine potentially related factors to the failure condition. This will include metallographic examination for microstructural flaws or abnormalities.

The methods used in the failure / corrosion analysis will typically include visual examination, examination by optical microscopy, examination by scanning electron microscopy (SEM), metallographic examinations (cross sectional examination of material microstructure), energy dispersive spectroscopy (EDS) of corrosion products/residues, microbiological activity studies, hardness survey and chemical analysis.

A formal report, with photographic documentation will be generated upon completion approximately 15 business days after the test is started.

Pipe Section Return Procedure

Note: The sample must be received by the third party within 72 hrs after it is removed from the sprinkler system.

1. Package the failed pipe section (8"-24" in length) to preserve deposits and corrosion sites during shipping. Taping plastic bags or duct tape over the ends will help retain deposits during shipping. Mark the sample with system orientation, i.e. top, bottom, if known. Package the pipe section in a shipping box using packing materials to ensure the sample is wellcushioned to prevent being crushed or broken during shipping.

2. Complete sample identification of this document and include with pipe section return.

3. Contact Potter at 800-325-3936 for prepaid shipping information.

PIPE FAILURE CORROSION ANALYSIS

Includes:

- Prepaid sample shipping (U.S. Only)
- Sample identification form
- · Laboratory analysis of returned pipe samples

Stock number: 1119183

Sample Identification

NOTE: *This section MUST be filled out completely and returned with the sample.*

Person/Firm Requesting Test

Name:		
Company:		
Address:		
City:	State:	Zip:
Phone #:		
Email:(If you would like report a	sent via email)	
Faci	lity Pipe Sample	Faken
Name:		
Bldg #:	Riser #:	
Address:		
City:	State:	Zip:
Phone #:		
S	System Information	n
System (circle one): Wet/	Dry FPS Age:	Total # of Risers
Facility Sq. Ft. (approx.):	#	of Floors:
Facility Type:		
Dravious System Treatma	nt	

Water Sample Information

Date sample collected:	Time:
Location in system where obtained:	
Sample collected by:	
Company:	
Address:	
Sample description/remarks:	

Potter Electric Signal Company, LLC • St. Louis, MO • Cust Service: 866-572-3005 • Tech Support: 866-956-0988 • Canada 888-882-1833 • www.pottersignal.com