

## PIPE SAMPLE INSTRUCTION FORM

**ECS Sprinkler System Pipe Corrosion Analysis** involves sectioning and media blasting the fire sprinkler system pipe sample to allow for visual inspection of the piping component. The Engineered Corrosion Solutions Interpretation and Analysis Report presents a description of the characteristics of the metal loss, evaluation, and measurements of any pitting that has occurred and the most likely cause for the metal loss and failure (if present).

## **Procedure For Pipe Sample Collection and Sample Preparation**

- Step 1 If pinhole leak is present on fire sprinkler piping, locate and **mark** pinhole leak/failure with a grease pencil or indelible ink marker.
- Step 2 Before removal of piping section, indicate the pipe sample's orientation by marking "TOP" at the 12 o'clock position of the pipe.
- Step 3 Remove an approximately 12 to 18 inch section of fire sprinkler pipe with pinhole leak/failure located in the middle of the pipe section.

OR

If no pinhole leak/failure is present, remove approximately 12 to 18 inch section of fire sprinkler pipe which exhibits the most corrosion damage.

- Step 4 Allow liquid to drain from pipe sample.
- Step 5 Wrap both ends of the pipe sample with plastic and seal with tape or rubber-band to preserve sediment.
   EXTERNAL CORROSION place individual sample into a plastic bag or container to avoid contamination from outside sources (i.e. other pipe samples)
- Step 6 Place Pipe Sample in Shipping Container.
- Step 7 Complete one **Pipe Sample Information Form** for each pipe sample, clearly identifying the sample, and place the form with the sample in the shipping container. Provide as much of the information as available.
- Step 8 Ship Pipe Sample and Pipe Sample Information Form to:

Engineered Corrosion Solutions Attn: ECS Consulting Group 11336 Lackland Road Saint Louis, MO 63146 +1 314.432.1377



## PIPE SAMPLE INFORMATION FORM

Customer Information: Contact Name:	Company:	
Address:	City:	State:
Zip: Phone:	PO#:	
Email:		
Sample Location: Facility: Address:		
System Information (check one): O Dry Pipe	e O Preaction Dry Pipe C	Wet Pipe O Supply
Dry or Preaction Air Supply (check one): O	Air Compressor O Nitrogen Gene	rator O Other
Wet Pipe Water Source (check one):		
O Municipal (City) Water O Water W	ell O Pond or Lake	○ Water Storage Tank
Approx. Age of System: years		
Pipe Sample Information: Date Collected:		
Location (check one): O Riser O Main	O Branch Line O Other	
Pipe Diameter (inches):		
Pipe Schedule (check one): O Schedule 40	○ Schedule 10 ● Schedule 5,	l7 O
Pipe Orientation (check one): O Horizontal O	Vertical	
System Operation Pressure: Wet System: Water Pressure psi		
Dry/Preaction System: Water Pressure	psi Maintenance Gas Press	urepsi
System Leak History: (e.g. recent leaks when ar	nd where, number of leaks)	
Send Sample To: Check Box to have Sample Returned *For pipe samples shipped outside the U.S., additional shippin		Sample Returned e the U.S., additional shipping charges may apply.
Engineered Corrosion Solutions Attn: ECS Consulting Group	Ship To*:	

11336 Lackland Road Saint Louis, MO 63146