

Sprinkler System Pipe Sample Corrosion Analysis Information Form

<p>Sample Submitted By:</p> <p>Name _____</p> <p>Company _____</p> <p>Address _____</p> <p>City _____ State _____ ZIP _____</p> <p>Phone No. _____</p> <p>E-mail _____</p>	<p>System Information (check one)</p> <ul style="list-style-type: none"> ▪ Dry Pipe <input type="checkbox"/> ▪ Preaction Dry Pipe <input type="checkbox"/> ▪ Wet Pipe <input type="checkbox"/> ▪ Supply <input type="checkbox"/> <p>Dry or Preaction Air Supply (check one)</p> <ul style="list-style-type: none"> ▪ Plant Air <input type="checkbox"/> ▪ Stand Alone Air Compressor <input type="checkbox"/> ▪ Nitrogen Bottles <input type="checkbox"/> <p>Wet Pipe Water Source (check one)</p> <ul style="list-style-type: none"> ▪ Municipal (City) Water <input type="checkbox"/> ▪ Water Well <input type="checkbox"/> ▪ Pond or Lake <input type="checkbox"/> ▪ Water Storage Tank <input type="checkbox"/>
<p>Sample Location:</p> <p>Facility _____</p> <p>Address _____</p> <p>City _____ State _____ ZIP _____</p>	<p>Approximate Age of System: _____ years</p>
<p>Pipe Sample Information:</p> <p>Date Collected _____</p> <p>Location (check one)</p> <ul style="list-style-type: none"> ▪ Riser <input type="checkbox"/> ▪ Cross Main <input type="checkbox"/> ▪ Branch Line <input type="checkbox"/> ▪ Other <input type="checkbox"/> <p>_____</p> <p>Pipe Diameter (inches): _____</p> <p>Pipe Schedule (check one)</p> <ul style="list-style-type: none"> ▪ Schedule 40 <input type="checkbox"/> ▪ Schedule 10 <input type="checkbox"/> ▪ Schedule 5 <input type="checkbox"/> ▪ _____ <input type="checkbox"/> <p>Pipe Orientation</p> <ul style="list-style-type: none"> ▪ Horizontal <input type="checkbox"/> ▪ Vertical <input type="checkbox"/> 	<p>System Operation Pressure</p> <p>Wet System</p> <p>Water Pressure: _____ psi</p> <p>Dry/Preaction System</p> <p>Water Pressure: _____ psi</p> <p>Maintenance Gas Pressure: _____ psi</p>
<p><input type="checkbox"/> Check Box to have sample returned. Ship To: _____</p> <p>_____</p>	<p>System Leak History: (e.g. recent leaks when, and where, number of leaks)</p> <div style="background-color: #e0e0e0; padding: 5px;"> <p>Ship Sample To: Engineered Corrosion Solutions Attn: Analytical Services 11336 Lackland Road St. Louis, MO 63146</p> </div>

SPRINKLER SYSTEM PIPE SAMPLE CORROSION ANALYSIS

ECS Fire Sprinkler System Pipe Sample Corrosion Analysis involves sectioning and media blasting the FPS pipe sample to allow for visual inspection of the FPS 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 8 to 12-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 8 to 12-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 to preserve sediment for analysis.
- 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. Check box and provide return shipping address if you would like to have the sample returned at no additional cost.
- Step 8:** Ship Pipe Sample and Pipe Sample Information Form to:

Engineered Corrosion Solutions
Attn: Analytical Services
11336 Lackland Road
St. Louis, MO 63146
Phone: (314) 432-1377