Analytical Services



Analytical tests of the corrosion product, process water and investigation of the metallurgy and microbial influences are often an essential tool to solve corrosion-related problems, especially in the area of corrosion failure investigation. Extrin can provide the following analytical services.

Water Analysis



The ability of water to conduct electricity is affected by its ionic concentration, in which Total Dissolved Solids (TDS) affect the water's ability to conduct electricity. This electrical conductivity is an important parameter in predicting corrosion.

Extrin can provide special laboratory testing which can *determine the corrosivity of water*, using the Langelier Saturation Index (LSI) and the Ryzner Stability Index (RSI). These are two common indices for predicting corrosion.

Corrosion Product Testing



Scanning Electron Microscopy (SEM)

On of the most used analytical technique for the characterisation of corrosion product.

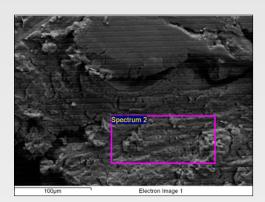
Energy-dispersive X-ray Spectroscopy (EDS)

Valuable for the elemental analysis or chemical characterisation.

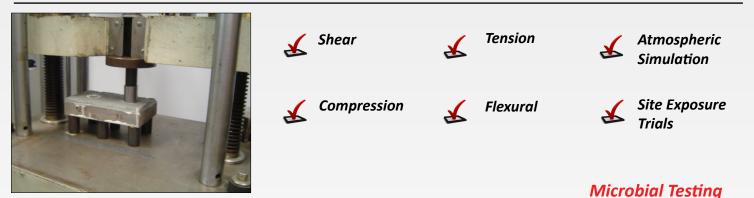


X-ray Crystallography

Used for determining the atomic and molecular structure of a crystalline structure.



Materials Testing



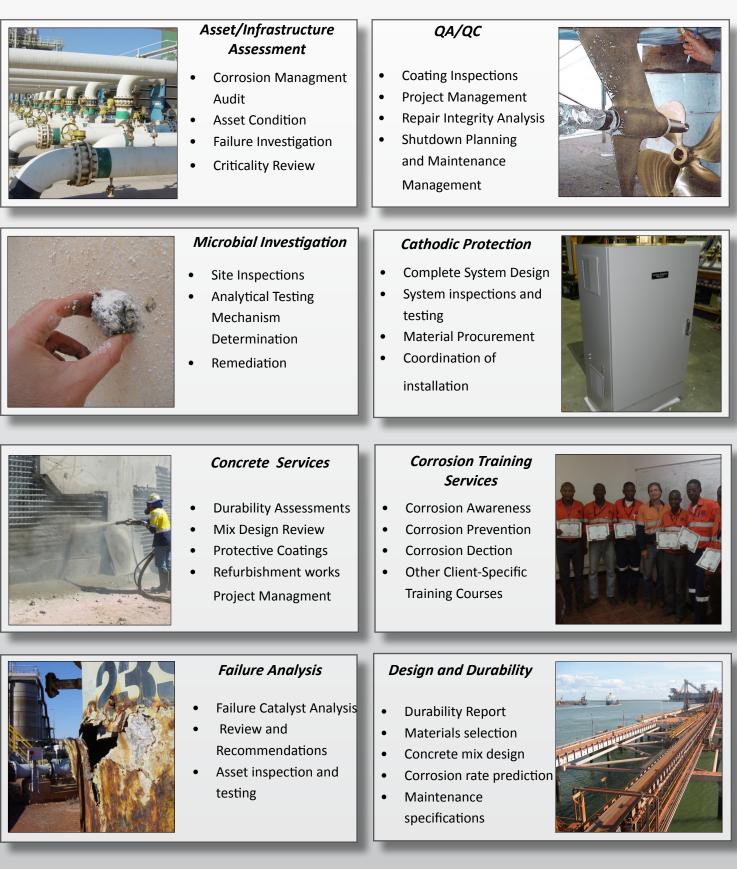
The identification of microorganisms responsible for corrosion can be affected by many factors including: freshness of the sample, collection procedure, transportation to the laboratory etc.

Extin can perform Microbial Testing varying from the very basic enumeration for a specific bacteria to the more complex DNA.



Our other services include...





Visit our website for more information on our services and projects undertaken



"Consultants in Corrosion Management"

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