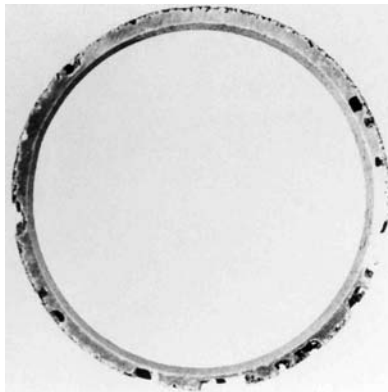
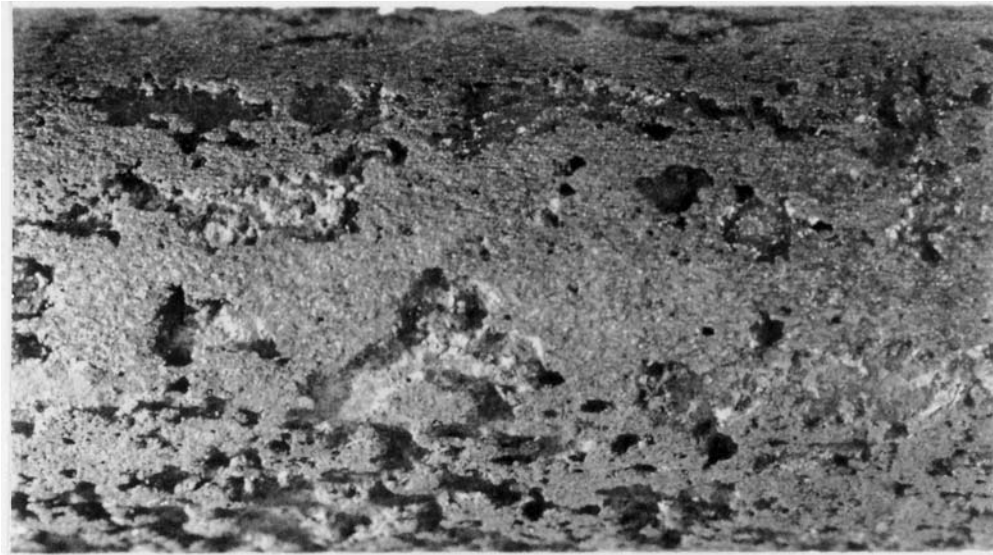


# M&M Engineering's Boiler Tube Failure Handbook



Hole—Waterside (Firetube boiler)



Locations	Waterside of tube in firetube boiler
Boiler Type	Firetube
Industry	Process/Heating

Appearance	General pitting
Mechanism	Acid attack
Comments	Improper chemical cleaning with hydrochloric acid can result in severe and rapid pitting of tubes.

