

- C. Faying surfaces of dissimilar metals shall be by dielectric separation of insulating gaskets (synthetic rubber, PTFE, etc), spreadable sealant, proper coating protection to resist the corrosive media of high salinity and humidity.
- D. Noble metals shall be specified for major structural units or components. Less noble, anodic components shall be made thicker to allow for long term free of corrosion, and provision should be made for easy replacement of the less noble components.
- E. The Electrical Conductivity of the Storm water/ Groundwater are a guide to its total dissolved solids (TDS) Content. The Contractor is required to consider the value of the expected EC in the locality to ensure provision of effective Anodic/ Coating Protection systems for the equipment and plants to be supplied and installed.
- F. All stainless steel fabrications shall be pickled and chemically passivated at the manufacturer's fabrication shop.
- G. All castings material as cast iron, cast aluminium, cast alloys; bronze etc. shall be of the first class appearance free from blowholes and cracks. Repair of casting by plugging, filling or welding is not acceptable.
- H. The Drainage system is managing surface water and sub-surface water.
- I. All material, including protective coating, shall be suitable for working under the prevailing climatic conditions, and shall be corrosive resistant against Seawater, high Saline Groundwater, and high Chlorine.
- J. Below are typical analyses results of the Groundwater that have been encountered in Abu Dhabi.

Table 1-1: Typical analyses results of the Groundwater

Location	pH	Chloride (g/l)	Sulphate (g/l)
Abu Dhabi Islands	6.5 - 8.3	13 - 120	2.2 – 6.1
Mussafah	7.0 – 7.2	148 - 188	2.6 – 4.6
Khalifa City "A"	6.3 – 7.5	40 - 210	1.6 – 6.8
Khalifa City "B"	6.7 – 7.9	70 - 285	2.1 – 8.6