

## 6.12 Methodology for Development of AMP

This outline methodology is to be used to provide an O&M assessment of stormwater systems in Abu Dhabi Municipality jurisdiction.

### 6.12.1 Overview

#### a) Existing Asset Register

All the plant assets managed by the Contractor would have been identified and described in a functional tree structure. This asset register should be constantly updated if new plants are built, transferred to the responsibility of the Contractor or if identified as operational units that would need to be followed individually as assets.

#### b) General Assessment Methodology

For each operational unit, its Condition and Performance will be graded, as well as its criticality. Based on these grades a global grade will be given that will be used to specify the forecasted year of replacement.

The condition and performance of operational units will deteriorate over time. The time will depend on the nature of the unit and quality and design life. The general design life for elements of a stormwater system are shown in Volume 1 – Design Manual.

#### c) Condition Grade

Condition grade is an assessment. Rating on a 1 to 5 basis with 1 indicating the asset is in 'as new' condition and 5 that it is beyond economic repair Condition Grade is determined from the individual assessments of Integrity, Safety and Residual Life. Regarding normal asset life duration, reference should be made to DMAT'S requirements at construction stage.

An overall Condition Grade for an operational unit is a translation of the grades for each category. The overall figure is not a percentage but instead a judgment on which category is the most important to that operational unit's Condition Grade based on the overall condition, integrity,

- Residual Life      1
- Safety              2
- Integrity            3

The assessment criteria for an operational unit are explained in Table 6.1 and 6.2.