

ASAM R/T Benchmarking

The following areas have been targeted to provide an overview of the asset condition and to identify potential problems that may occur if maintenance is not carried out:

- Security
- Contamination
- Safety
- Confined spaces
- Carbonation (deterioration of concrete structures)
- External Structural condition and Protective Coatings
- Internal Structural condition and Protective Coatings

Each area is given a priority number that can be used to compare conditions between similar assets - some sections will also influence others due to parallel areas of interest.

Security relates to the possibility of unauthorized tank access - it directly affects **Contamination** if substances can be introduced into the stored water. **Safety** includes all features that may cause injury, and is influenced by **Confined Spaces** in some cases. **Structural** condition can be directly affected by deterioration of the protective **Coating** or a high **Carbonation** percentage. **Carbonation** is expressed as a percentage between remaining sound concrete and steel cover depth, with 100% carbonation meaning the steel is fully exposed to the surrounding environment.

By using these benchmarks, an average life span and working environment can be predicted, allowing preventative measures to be taken before serious damage or personal injury occurs.

Priority 0 Item requires immediate attention

Priority 1 Item is in poor condition or otherwise non functional

Priority 2 Item is to receive precedence during maintenance

Priority 3 Item is functional but deteriorated

Priority 4 Item is in good condition