Contact tank clean and repair

Collaborating with Stonbury, we delivered cleans and repairs to three WTW contact tanks on a potable water treatment site in the Northeast.

In **summary**

- → Our client required a clean and repair in a quick turnaround to put the vital asset back into service
- → Utilising capabilities from both companies, we successfully delivered an efficient clean and repair
- → The treatment plant had a design horizon population of some 32,000

The **need**

The three 700-cubic-metre contact tanks required routine maintenance and repairs to comply with DWI regulations. The project required an efficient turnaround to return the tanks to service within a three-week allotted timeframe.

Due to the delicate nature of the coating on the concrete tank walls, high-pressure water jetting (HPWJ) was an unsuitable cleaning method for these assets. This posed a challenge for the Stonbury team, as cleaning the tank by hand would prove too slow to allow adequate time to complete the repairs before the project deadline.

The **solution**

With authorisation from the client, we were enlisted to assist. Providing expert chemical methods which dissolve brown staining, each remaining 700-cubic-metre tank was successfully cleaned in just one day.

This afforded the Stonbury team considerable extra time to complete the necessary repairs, which included 933 mortar repairs to Sika 62 wall coatings on over 70 areas, lifting and re-bedding three hatches, and fabricating and installing three steel ladders and sump handrails.

The **benefits**

- Our chemical clean, using PM88 and PM55 cleaning agents, provided a fast, low-pressure solution that successfully dissolved hard, encrusted biofilm staining from walls and baffles and removed bacteria from the tank without damaging the wall coatings.

- The method significantly shortened the clean times, allowing extensive repairs to be completed within the programmed timeframe.

- While HPWJ is preferable for some tanks, the chemical clean provides a superior solution for coated concrete, reduces the need for water tankers and is easily neutralised for discharge to protect water quality.

- Combining Stonbury's expert knowledge of the asset and our specialist chemical cleaning techniques had resulted in highly improved efficiency and therefore a successful and cost-effective outcome for our client.

700
cubic-metre
x3 tanks

3
weeks to complete
the works




