



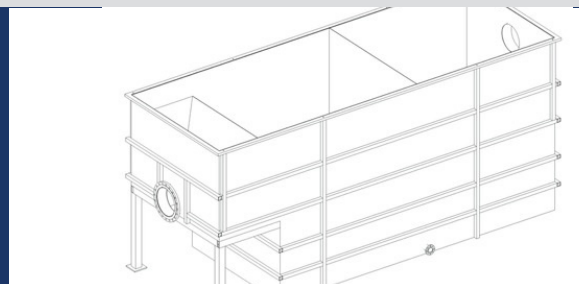
# VEOLIA COLNE WWTW COAGULATION & FLOCCULATION TANKS

The client approached Watermark to assist in the design, manufacture of Coagulation and Flocculation Stainless Steel Tanks for a Phosphorus Removal Scheme within the Municipal Waste Authorities.

➤ Project Value **£142,000**

➤ Client **Veolia**

➤ Project Completed **December 2019**



DESIGN

FABRICATION

INSTALLATION

SHEQ

## WATERMARK SOLUTION

The client provided a technical specification and a preliminary basic model with the caveat that the design met all British Standards, European Directives and UK Health & Safety and Environmental regulations.

Watermark design included a stress analysis to prove buckling effects imposed by tank medium on the tank walls. Calculations for loadings imposed by third party walkways and ancillary equipment on top of the tanks was also undertaken.

Manufacture drawings were produced incorporating client's additional works comprising hinged manway covers, pipe/instrumentation supports, Nozzle connections and interfaces with 3rd party structural steelwork.



Welding of the tanks was by Synergic MIG using a flux cored wire to facilitate positional welding so eliminating turning the tanks for down hand welding.

A 10% Dye Penetrant inspection of the welds was undertaken before a fill test with water.

Tank sizes 30M<sup>3</sup> and 90M<sup>3</sup> respectively with a combined weight of 20 tonnes.

**ON TIME,  
ON BUDGET  
& DELIVERED SAFE**