

## Queen Elizabeth's Girls School

We have a service contract at Queen Elizabeth's Girls School in Barnet to undertake temperature monitoring and carry out additional tasks including TMV and showerhead servicing - all part of their water hygiene programme.

Although not actually part of our contract, we were asked to help out after they discovered some flow issues in Meadway Block just before an important open evening event was due to take place at the school.

### Problem

A survey of the domestic water services revealed that the flow issues were due to a blockage at the cold water tank.

We carried out a more detailed survey and established that the galv tank had previously rusted and been fitted with a butyl rubber lining some time ago.

It is not known when this alteration occurred but, as often happens with these linings, over time it had degraded and started to fall away from the walls and break apart. As well as stagnant water gathering between the lining and the tank walls, the lining was also breaking off and causing the down-services to become blocked, thereby negatively affecting the flow to the outlets throughout the building.

### Solution

Following our swift site visit we submitted a proposal to remove the existing lining, and prepare the corroded surfaces of the tank ready for the application of a 2-coat Polyurethane-based paint system in order to extend the life of the tank and eradicate the blockages.



Within days an order was received and our operatives were on site over a weekend, addressing the issue, and on completion of the lining process, the tank was fully disinfected and then brought back into service allowing the school to proceed with their open evening event as planned.

### Conclusion

The school were quick to act and made contact with us as a trusted sub-contractor and water treatment specialist. We established the problem, offered a reasonably priced and sensible proposal and solution which fell within their required budget and timeframe. Then the flow issues were solved and the tank was rendered 'nearly new' and fit for purpose again.

Most importantly, the client was extremely happy with the result - see next page for photographs which demonstrate what was achieved.

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**Before** - internal photograph shows butyl lining being removed and the full extent of the corrosion beneath on the galv surfaces



### Scope:

Tank 09: 1500 x 2500 x 1000

Isolate and drain down tank.

Manually abrade internal surfaces tank.

Remove all debris and thoroughly dry, in preparation for painting.

Apply first coat of Cotex 3, two part solvent free Polyurethane paint to all internal Surfaces. Allow to cure and apply second coat of paint (blue).

On completion disinfect with a solution of "HuwaSan TR50", a stabilised solution of hydrogen peroxide and silver salts at 150ppm to give a hydrogen peroxide content of 75ppm and silver ion content of 50-70ppb.



**After** - before and after filling and disinfection

All materials that come into contact with the potable water are WRC approved.

