

## CASE STUDY



### Mill Bay Pumping Station, Plymouth – South West Water ODOUR CONTROL SYSTEM



#### Overview

OSIL were commissioned to undertake the refurbishment of an existing Odour Control System at Mill Bay Pumping Station for South West Water situated in Plymouth following odour complaints from local residents. The original plan was to refurbish the existing odour control unit and replace the Carbon media. However, upon investigation of the internal retaining baskets of the existing system using an endoscope flexible camera, it became apparent that the existing odour control unit was damaged beyond economical repair due to the construction of the housing within the Pumping Station and the age of the unit.

OSIL's solution was to provide a cost and space saving design of a new circular deep bed odour control unit. This provided the customer with safer access in and out of the Pumping Station as well as reducing any height risk for future media changes by making the access ports at low level. Maintenance of the unit was also simplified with the new design.



#### What was the problem?

On inspection of the existing Odour Control Unit the media retaining baskets were found to be damaged and due to the age of the unit and the confined nature of the access to the filter this was found to be beyond economical repair. The original design of the existing Odour Control Unit had restricted regular maintenance due to space restrictions around the unit.



## How did OSIL approach the challenge?



The first challenge for OSIL was the removal of existing equipment contained within a small building with limited access. The second challenge was then the replacement and commissioning of the new system as quickly and efficiently as possible to minimise system downtime and disruption to the local residents. Our final challenge was to blank off the existing exhaust stack on the roof and re-route the outlet to the side of building.



## Delivering the Solution

OSIL dismantled the existing equipment in sections and disposed of the old equipment in an environmentally friendly manner. OSIL completely redesigned the Odour Control System, offering a much simpler, space saving and much more energy efficient and effective solution to suit the confines of the Pumping Station.

New ducting, Control dampers and a brand-new compact designed CuCarb<sup>®</sup> Carbon Filter was installed with new CuCarb<sup>®</sup> media. The new system was then balanced, commissioned and tested to the customers satisfaction.

Before



After





## How did the Client win?

OSIL's new design ensures that future servicing and maintenance undertaken on the unit will be at low level and operatives are not confined by the size of the housing within the Pumping Station as per the original system. Training was given to staff at the location and an Operations & Maintenance Manual produced for the South West Water engineers to help them to understand the system and perform regular maintenance themselves. OSIL also offered a Service & Maintenance plan to keep the unit functioning effectively. The installation of the new system was carried out efficiently and on programme by OSIL.



## Testimonial

New system looks good thank you for your prompt delivery and installation. A professional installation meeting all aspects of the engineering criteria for the installation.

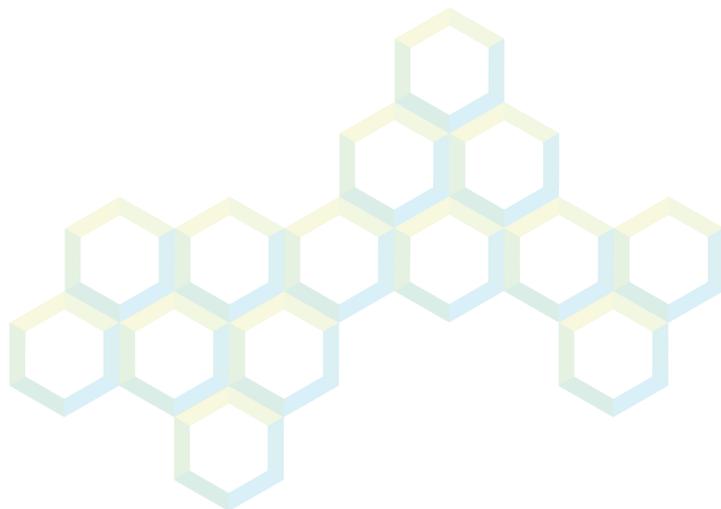
Five SWW operatives trained with a good understanding of the system. Feedback from them was positive – OSIL Site Engineer



## Downloadable content

[OSIL Brochure](#)

[Service & Maintenance Brochure](#)



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