



Major **advantage** of Bio-Bubbles modular treatment system for **prestigious** new development.

The Bio-Bubble Waste Water Treatment Works at Old Town, St. Mary's in the Scilly Isles has been expanded to receive additional waste from the new Five Islands School.

The prestigious Five Islands School project has further demonstrated the major advantage of installing a modular Bio-Bubble Treatment System. The original Bio-Bubble comprised of a single Balance Tank and two treatment reactors, which were first commissioned in June 2000 to treat the waste from Old Town, St. Mary's consisting of some 200 plus dwellings, a pub, a café, public toilets, and the airport giving a total population of circa 700. In the late 1990's The Hugh Town gravity system became under strain whenever the pump station serving Old Town St. Mary's delivered its waste. The Installation of the new Bio-Bubble at the turn of the century had the consequence of relieving the load from the stressed Hugh Town network by nearly 20%. Just over a decade has passed since the installation of the Bio-Bubble, which is within an AONB and although the system has met with the design criteria to discharge into the local brook with an analysis of < 10mg/l BOD, 15 mg/l suspended solids, < 5mg/l NH3, the additional volumes generated from the New Five Island school project exceeded that of the original design load of the plant.

Fortunately, the addition of a third Reactor which draws its waste from the original Balance Tank, provided the solution to the problem and also meant its high quality effluent is now UV treated prior to discharge into the SSSI nature reserve water which in turn link to the Old Town Beach.

The original team; Cornwall's H2O Systems Ltd, responsible for the civil works and Bio-Bubble Technologies undertaking the process, design and mechanical and electrical installation, worked together to deliver the WWTW expansion project for The Isles of Scilly Council. The main contractor for the Five Island School Project; Kier Western Ltd Constructed the new £15 m School which was visited by the Queen and Prince Philip on their recent June 2011 tour of The Isles Of Scilly.



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