

# Sewer renovation prompts Sykes Pumps to assist South West Water

Plans to upgrade sections of sewer in Carbis Bay, Cornwall, were reliant upon the assistance of specialist hire company Sykes Pumps. The sewer's original pipework was laid in 1996, prompting South West Water to conduct a major maintenance project to ensure the integrity of the concrete was protected going forward.

Over time, untreated sewage and effluents of a low pH can cause anaerobic conditions to prevail within the pipework – meaning there is an oxygen deficiency. This produces hydrogen sulphide gas in the sewage which causes irreversible damage to the concrete pipework in poorly ventilated enclosed sewerage systems. As a result, pipework spanning more than a mile requires relining in a planned project expected to be completed by April 2020. The work is being done in seven phases, with each scheduled to last approximately a fortnight.

In order to maintain the identified sections of pipework, an overpumping rental solution was necessary to ensure sewage could bypass the areas in which improvements were being carried out. Having assessed the needs of our client, we proposed the installation of two electric UV301M self-priming wastewater pumps. It was felt that a single unit would be sufficient for the duration of the scheme, but a second unit was supplied to guarantee that higher flow rates could be accommodated if necessary.

For contingency purposes, we also provided the client with two additional 8" Super Wispaset 200 diesel powered pumps which were delivered to site as a back-up pumping solution. To date, our equipment has allowed the client to use advanced technology which involves the application of an epoxy resin to existing pipework. This method creates an impermeable lining on the concrete without the need for digging trenches, thus minimising disruption to local residents.



**UV301M**  
**Model:** 415 (3-phase) 50Hz  
**Motor rating (kW):** 140  
**Running speed:** 300  
**Suction inlet port (mm):** 127 x 110  
**EX rated:** Yes  
**Motor rated (V):** 75  
**Running current (A):** 980 rpm  
**Discharge port (mm):** 30  
**Maximum solids (mm):** Yes  
**Cooling jacket:** 20 m

**60CFM VP**  
**Model:** 415 (3-phase) 50 Hz  
**Motor rating (kW):** 4.58  
**Motor type (V):** 2.2  
**Running current (A):** 1,450 rpm



**SYKES PUMPS** 

HIRE SALES SERVICE INSTALL

**0800 211 611**

[sykes-pumps.com](http://sykes-pumps.com)