



## CASE STUDY

# Reliable Dewatering, Water Treatment & Safe Discharge from Sykes Pumps

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## Reliable Dewatering Solution and Safe Water Treatment from Sykes Pumps in West Sussex

A major project is under way at West Sussex, where a silted lake is being emptied and treated to ensure safe discharge into the local environment. This forms part of a wider three-year programme to support quarry operations while meeting strict conservation and water quality standards.

Sykes Pumps was called upon to assist in the dewatering process, which required pumping lake water over 100 metres to a natural water source. To comply with UK waste water regulations and water industry regulations, the water first had to be chemically treated to achieve safe pH levels before discharge.

**0800 211 611**

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## 1 CHALLENGE

Operating within a working quarry and a conservation area presented logistical and environmental challenges.

- Significant pipework had to be installed deep into the quarry.
- Equipment positioning was restricted by site activity.
- Achieving correct pH levels was critical to ensure compliance with discharge regulations.



## 2 SOLUTION

Sykes Pumps delivered a tailored pumping solution featuring a PC100 progressive cavity pump, submersible units, and high-capacity diesel pumps.

To maintain water quality, the system was supported by a Chemical Dosing System, ensuring all discharge met strict environmental standards. Live monitoring continuously measured pH levels to guarantee compliance throughout the operation.

## 3 OUTCOME

The silted lake was successfully dewatered and treated, enabling water to be safely discharged into a nearby natural water source.

This operation allowed quarry works to continue with minimal disruption, while maintaining environmental safeguards in line with industry regulations. The project marks a significant step in quarry site management and environmental protection in the Pulborough region.







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