



CIWEM

The Chartered Institution of Water and Environmental Management

CIWEM South Eastern Branch

The Chartered Institution of Water and Environmental Management

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MEETING OF SOUTH EASTERN BRANCH

Date: Thursday April 17 2008
Venue: Southern Water, Southern House, Lewes Road, Falmer, BN1 9PY
Time: 18.00 for 18.30
Subject: Design, Commissioning and Initial Operating Experiences from the First Wastewater Nitrogen Removal Sites in the UK

Total nitrogen consents have been enforced for the first time in the UK in sensitive waters in the Southern Water region. This has resulted in the requirement to upgrade wastewater treatment works (WwTW) ranging from 4k population equivalent (pe) percolating filter works to 400k pe activated sludge works.

These schemes have been delivered by 4 Delivery Ltd (4D). 4D is a joint venture company comprising of United Utilities, Costain and MWH. The company has a contract with Southern Water to deliver £700 million of capital improvements as part of their 4th asset maintenance plan. These nitrogen removal plants constitute £100 million of the overall programme.

Two of Southern Water's largest wastewater treatment works at Budds Farm and Peel Common with pe of 400k and 250k have been converted to a 4 stage Bardenpho activated sludge configuration. A Modified Ludzak Ettinger activated sludge configuration has been constructed at Chichester, which serves a population equivalent of 45k.

Three percolating filter works at Sidlesham, Thornham and Bosham with pe of 48.5k, 20.5k and 4k respectively have additional tertiary denitrifying sandfilters to achieve the new total nitrogen consent.

The design challenges of the schemes will be discussed as well as the commissioning issues, which were faced by the team and on going operating experiences as the various plants are optimised.

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If you wish to attend please reply using this strip ASAP, by the latest 3 April 2008 to: Steve Mitchell, Hon Branch Treasurer, 2 Ferrers Road, Lewes BN7 1PZ (tel: 07751 609837, email: sbmitch1@googlemail.com). Please also give your phone contact and email address in case of late changes to the meeting. If you need a map please state and include your fax number, or, preferably, your email address.

I wish to attend the April 17 2008 branch meeting and will be accompanied by guests.

Name Phone Fax

E mail

Address

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Guests name(s)