
ROCHFORD SEWAGE TREATMENT WORKS, STAMBRIDGE – MEMBERS UPDATE

1 SUMMARY

- 1.1 To inform Members of the completion of the Anglian Water sludge dewatering upgrade programme at the Rochford Sewage Treatment Works, Stambridge.

2 INTRODUCTION

- 2.1 Members of the Environmental Services Committee were informed at their meeting held on 16 January 2007 of details of the proposed Anglian Water upgrade programme for the sludge dewatering process at the Rochford Sewage Treatment Works. Members resolved that a further report should be made to committee, following completion of the upgrade works, in the autumn of 2007 (Min 12/07).

3 SLUDGE DE-WATERING PLANT UPGRADE

- 3.1 Anglian Water carried out an upgrade programme of the sludge dewatering process at their Rochford Works during the period June 2006 to June 2007. These works centred on the installation of two, fixed, centrifuges to replace the vehicle-mounted centrifuge, which has operated at the site for a number of years. The new centrifuges are housed within a refurbished dewatering building. A sealed system feeds the dewatered cake to sealed containers, which are then transported off site.
- 3.2 The works covered a range of improvements to the dewatering process, including:
- a. Sealing of the Picket Fence Thickeners Tanks.
 - b. Renewal of the Drainage Pumping Station.
 - c. Upgrading of the Odour Control System. This included the installation of an in-line Catalytic Iron Filter in order to greatly increase the efficiency of the existing Peacemaker odour control unit and to deal with peaks in odour flows. The entire dewatering infrastructure has been connected to the odour control system including internal space extraction of the dewatering building. The medium within the Peacemaker has been replaced and a Hydrogen Sulphide monitoring system has been installed within the stack.
 - d. All of the cake containers have either been replaced or refurbished and a new feed control system installed.

Design Capacity

- 3.3 The dewatering process has a projected design capacity to 2015. This includes the increased housing developments detailed within the East of England Plan for Rochford and Southend.

Odour Management Plan

- 3.4 Anglian Water has produced a revised Odour Management Plan for the Rochford works.

Site Visits

- 3.5 A site visit for Members of the East Area Committee, Stambridge Parish Council and Sludgwatch to view the upgraded works, together with a presentation by Anglian Water project engineers, was held on 31 August 2007. A further site visit was held on 28 September 2007 for Members who were unable to attend the August visit. In addition, a briefing session by officers was arranged at the Rochford offices on 25 September for Members who could not attend either site visit.

4 POST UPGRADE SAMPLING AND MODELLING

- 4.1 Anglian Water will carry out a range of post upgrade odour monitoring to enable comparison with the predicative odour model.
- 4.2 The Council's specialist consultant, Agricultural Development & Advisory Services (ADAS), has been engaged to independently model the post upgrade odour emissions on our behalf.

5 LOCAL SEWAGE WORKS

- 5.1 Anglian Water have addressed the comments previously made by officers regarding the desludging of the primary settlement tanks, which form part of the local treatment work, by replacing and increasing the number of pumps and increasing the frequency of sludge removal
- 5.2 Although not forming part of the upgrade programme, officers have written to Anglian Water requesting that they consider the installation of a stack-monitoring device within the supernatant Peacemaker Odour Control Unit. The Catchment Manager has confirmed that he has made an internal bid for the funding of this project.

6 RESOURCE IMPLICATIONS

- 6.1 Expenditure will be necessary to cover the costs of the ADAS modelling and expert advice, which can be met from existing budgets.

7 PARISH IMPLICATIONS

7.1 Rochford Sewage Treatment Works is within the parish of Stambridge and the Parish Council were represented on the site visits.

8 RECOMMENDATION

8.1 It is proposed that the Committee **RESOLVES**

To note the contents of this report.

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Background Papers:-

None

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