

ODOUR EMISSION SURVEY – ROCHFORD SEWAGE TREATMENT WORKS, STAMBRIDGE

1 SUMMARY

- 1.1 To inform Members of the key findings of the Odour Emission Survey relating to Rochford Sewage Treatment Works (RSTW). A copy of the report is appended.

2 INTRODUCTION

- 2.1 The Environment Overview & Scrutiny Committee on 18 November 2003 supported a request from Stambridge Parish Council for the appointment of a specialist consultant to investigate odour issues associated with RSTW (Minute 522/03). The Environmental Services Committee held on 11 December 2003 subsequently resolved that expenditure of up to £10,000 for the provision of an independent odour survey be made available (Minute 578/03).
- 2.2 Following the competitive tendering procedure, specialist consultants, ADAS, were appointed to undertake an odour emission survey and modelling of the RSTW.

3 ODOUR SURVEY AND MODELLING

- 3.1 The odour survey included on-site investigation, sampling and analysis and off-site observations, including sampling from local residences and the works access road.

4 ADAS RECOMMENDATIONS

- 4.1 Mr S Peirson, ADAS, will be in attendance at the Committee meeting to present the survey report and answer Members' questions. Anglian Water have been formally invited to attend the Committee meeting but have not, at the time of writing this report, given a response.
- 4.2 The ADAS report makes the following recommendations:
- Anglian Water should be encouraged to review the following aspects of the Works operation and management to help demonstrate Best Practicable Means control of odour emissions:
1. The frequency and effectiveness of primary settlement de-sludging regimes.
 2. The effectiveness of the sludge treatment Peacemaker should be reviewed and appropriate improvements put in place.

3. The effectiveness of the supernatant Peacemaker should be reviewed and appropriate improvements put in place to reduce emissions if necessary.
 4. Better sealing of the Picket Fence Thickener tanks to reduce fugitive odour loss.
 5. Site boundary and off site mapping of hydrogen sulphide concentrations in the summer or late spring, after appropriate improvements have been made to the works, to demonstrate the effectiveness of these measures and/or to highlight remaining “hotspots”.
- 4.3 In addition, Anglian Water have been requested to produce an updated Odour Management Plan for their Rochford Works.
- 4.4 The draft copy of the survey report was discussed with Anglian Water who have agreed, in principle, to the recommendations and have given verbal assurances that improvements will be carried out. To date, no written confirmation has been received from Anglian Water regarding the above.

5 PARISH IMPLICATIONS

- 5.1 The odour emission survey was commissioned at the request of Stambridge Parish Council.

6 RECOMMENDATION

- 6.1 It is proposed that the Committee considers the contents of the ADAS report.

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Background Papers:-

ADAS Odour Emissions and Dispersion Modelling Report for the Rochford Sewage Treatment Works, Stambridge.

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