



Thurrock Flexible Generation Plant

Preliminary Environmental Information Report Appendix 15.3: Surface Water Abstraction Licenses, Discharge Consents and Pollution Incidents

Date: September 2018

Environmental Impact Assessment
Preliminary Environmental Information Report

Volume 6
Appendix 15.3

Report Number: JER1638

Version: Final

Date: September 2018

This report is also downloadable from the Thurrock Flexible Generation Plant website at:
<http://www.thurrockpower.co.uk>

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Summary

This document presents publicly available data used to inform the assessment in Volume 3 Chapter 15: Hydrology and Flood Risk, specifically surface water abstraction licenses, discharge consents and pollution incidents.

Qualifications

This document has been prepared by Jonathan Morley, a Principal Consultant, who has 12 years' experience of environmental impact assessment.

It has been checked by Richard Chalmers who is a Chartered Engineer and Royal Academy of Engineering Teaching Fellow, with over 30 years' professional experience in consultancy in the UK.

1. Surface Water Abstraction Licenses, Discharge Consents and Pollution Incidents

1.1 Introduction

1.1.1 This appendix identifies the surface water abstraction licences, discharge consents and pollution incidents located within the hydrology and flood risk study area for Thurrock Flexible Generation Plant, as defined in Volume 3, Chapter 15: Hydrology and Flood Risk. The data contained within this annex has been used to inform the baseline and impact assessment as follows:

- Surface water abstraction licences are a good indication of how the surface watercourses in the hydrology and flood risk study area are utilised;
- Discharge consents within the hydrology and flood risk study area may affect the baseline quality of the receiving surface water; and
- Pollution incidents identify where the quality of watercourses within the hydrology and flood risk study area may have been affected by pollution.

1.1.2 Details of the licences, consents and incidents have been obtained from a commercial data supplier (Groundsure Limited) and local authorities relevant to Thurrock Flexible Generation Plant (Essex County Council, and Thurrock Borough Council). The information is regulated by the Environment Agency (EA) and local authorities.

1.1.3 It is noted that pollution incidents are classified by the EA into one of four categories using their Common Incident Classification Scheme. The different categories of pollution incidents are defined in Table 1.1.

Table 1.1: Pollution incident categories.

| Pollution Incident | Category Criteria |
|--------------------|---|
| Category 1 | Major, serious, persistent or extensive impact or effect on the environment, people and/or property |
| Category 2 | Significant impact of effect on the environment, people and/or property. |
| Category 3 | Minor or minimal impact or effect on the environment, people and/or property. |
| Category 4 | Substantiated incident with no impact. |

1.2 Data records

1.2.1 The surface water abstraction licences are set out in Table 1.2, discharge consents are set out in Table 1.3 and pollution incidents are set out in Table 1.4 and shown on Figure 1.1. The distances in Table 1.2 to Table 1.4 are taken from the edge of the Thurrock Flexible Generation Plant application boundary shown in Figure 1.1.

Table 1.2: Surface water abstraction licences.

| Distance from Thurrock Flexible Generation Plant order limits (m) | Easting | Northing | Licence Number | Operator | Abstraction Type | Source of Abstraction |
|---|---------|----------|---------------------------------------|-----------------|----------------------------|---|
| 1770 | 566477 | 179408 | 8/37/56/*S/0085/R01 Status: Active | C H Cole & Sons | Spray Irrigation - Storage | Source - Ditch Trib of R.Thames Annual Volume (m ³): 127272 Max Daily Volume (m ³): 3600 Application No: - Original Start Date: 01/04/2017 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: |
| 1770 | 566477 | 179408 | 8/37/56/*S/0085 Status: Historic | C H Cole & Sons | Spray Irrigation – Storage | Source - Ditch Trib of R.Thames Annual Volume (m ³): 127272 Max Daily Volume (m ³): 3600 Application No: - Original Start Date: 07/05/1997 Expiry Date: 31/03/2017 Issue No: 101 Version Start Date: 17/12/2003 Version End Date: |
| 1792 | 566500 | 179450 | 8/37/56/*S/0085 Status: Historic | C H Cole & Sons | Spray Irrigation – Storage | Source - Ditch Trib of R.Thames Annual Volume (m ³): 127272 Max Daily Volume (m ³): 3600 Application No: - Original Start Date: 07/05/1997 Expiry Date: 31/03/2017 Issue No: 101 Version Start Date: 17/12/2003 Version End Date: |

Table 1.3: Discharge consents.

| Distance from Thurrock Flexible Generation Plant order limits (m) | Easting | Northing | EA Reference | Operator | Effluent Type | Receiving Environment |
|---|---------|----------|--|---|--|---|
| 14 | 566000 | 176120 | Permit Number: PRENF10899 Permit Version: 1 Issue date: 24/04/1997 Effective Date: 24-Apr-1997 | Tilbury 275kv Sub-Station, Fort Road, Tilbury, Grays, Essex, RM18 8UJ | Sewage Discharges - Final/Treated Effluent - Not Water | Receiving Water: Tributary Thames Estuary |
| 107 | 565300 | 176300 | Permit Number: PR2NFE08565 Permit Version: 1 Issue date: 28/07/1965 Effective Date: 28-Jul-1965 Revocation Date: 25/02/1993 | Sandhurst Road, West, Tilbury, RM8 8DH | Miscellaneous Discharges - Surface Water | Receiving Water: Unknown Trib. River Thames |
| 122 | 567100 | 177700 | Permit Number: PRELF11902 Permit Version: 2 Status: REVOKED UNDER EPR 2010 Issue date: 14/12/2011 Effective Date: 14-Dec-2011 Revocation Date: 23/05/2018 | Mayer Parry Recycling Ltd, Low St. Brickworks, Station Road, Tilbury, Essex, RM18 8QR | Effluent Type: Trade Discharges - Site Drainage | Receiving Water: Into Land At Site |
| 122 | 567100 | 177700 | Permit Number: PRELF11902 Permit Version: 1 Issue date: 07/03/2000 Effective Date: 27-Jan-2000 Revocation Date: 13/12/2011 | Mayer Parry Recycling Ltd, Low St. Brickworks, Station Road, Tilbury, Essex, RM18 8QR | Effluent Type: Trade Discharges – Site Drainage | Receiving Water: Into Land At Site |
| 248 | 565800 | 176400 | Permit Number: PR2NFE02865 Permit Version: 2 Issue date: 29/01/1992 Effective Date: 29-Jan-1992 Revocation Date: 26/01/2001 | Tilbury Marshes, Tilbury, Essex | Effluent Type: Trade Discharges - Process Effluent - Water Company (Wtw) | Receiving Water: Trib Tidal River Thames |
| 248 | 565800 | 176400 | Permit Number: PR2NFE02865 Permit Version: 1 Issue date: 09/03/1965 Effective Date: 09-Mar-1965 Revocation Date: 28/01/1992 | Tilbury Marshes, Tilbury, Essex | Effluent Type: Trade Discharges - Unspecified | Receiving Water: Unknown Trib. River Thames |
| 390 | 565100 | 176100 | Permit Number: PR2NFE01467 Permit Version: 1 Issue date: 23/01/1967 Effective Date: 23-Jan-1967 Revocation Date: 21/04/1992 | Factory Devlpt At Fort Road, Tilbury, Essex | Effluent Type: Miscellaneous | Discharges - Surface Water |

Table 1.4: Pollution incidents.

| Distance from Thurrock Flexible Generation Plant order limits (m) | Easting | Northing | Incident Reference | Pollutant | Water Impact | Date |
|---|---------|----------|---------------------------------|---|---|-------------|
| 31 | 565335 | 176511 | Incident Identification: 36738 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) | 15-Oct-2001 |
| 111 | 565275 | 176325 | Incident Identification: 11507 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 26-Jun-2001 |
| 121 | 567245 | 177706 | Incident Identification: 156678 | Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 08-May-2003 |
| 121 | 567245 | 177706 | Incident Identification: 156678 | Pollutant: Atmospheric Pollutants and Effects: Contaminated Water Pollutant Description: Smoke: Firefighting Run-Off | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 08-May-2003 |
| 121 | 567245 | 177706 | Incident Identification: 156678 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke | Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 08-May-2003 |
| 151 | 565485 | 176277 | Incident Identification: 165099 | Pollutant: Specific Waste Materials Pollutant Description: Tyres | Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact) | 11-Jun-2003 |
| 239 | 565174 | 176768 | Incident Identification: 199722 | Pollutant: Specific Waste Materials Pollutant Description: Household Waste | Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact) | 04-Nov-2003 |

| Distance from Thurrock Flexible Generation Plant order limits (m) | Easting | Northing | Incident Reference | Pollutant | Water Impact | Date |
|---|---------|----------|---------------------------------|---|---|-------------|
| | | | | | Impact) | |
| 298 | 565119 | 176222 | Incident Identification: 10062 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 19-Jun-2001 |
| 316 | 565104 | 176213 | Incident Identification: 37745 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 19-Oct-2001 |
| 316 | 565104 | 176213 | Incident Identification: 38003 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 20-Oct-2001 |
| 332 | 565160 | 176924 | Incident Identification: 36737 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) | 15-Oct-2001 |
| 332 | 565160 | 176924 | Incident Identification: 24779 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) | 16-Aug-2001 |
| 350 | 565739 | 175889 | Incident Identification: 173609 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust | Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor) | 14-Jul-2003 |
| 376 | 565670 | 175954 | Incident Identification: 10759 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) | 22-Jun-2001 |

| Distance from Thurrock Flexible Generation Plant order limits (m) | Easting | Northing | Incident Reference | Pollutant | Water Impact | Date |
|---|---------|----------|--------------------------------|---|---|-------------|
| | | | | Atmospheric Pollutant or Effect | Impact) | |
| 376 | 565670 | 175954 | Incident Identification: 10759 | Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact) | 22-Jun-2001 |

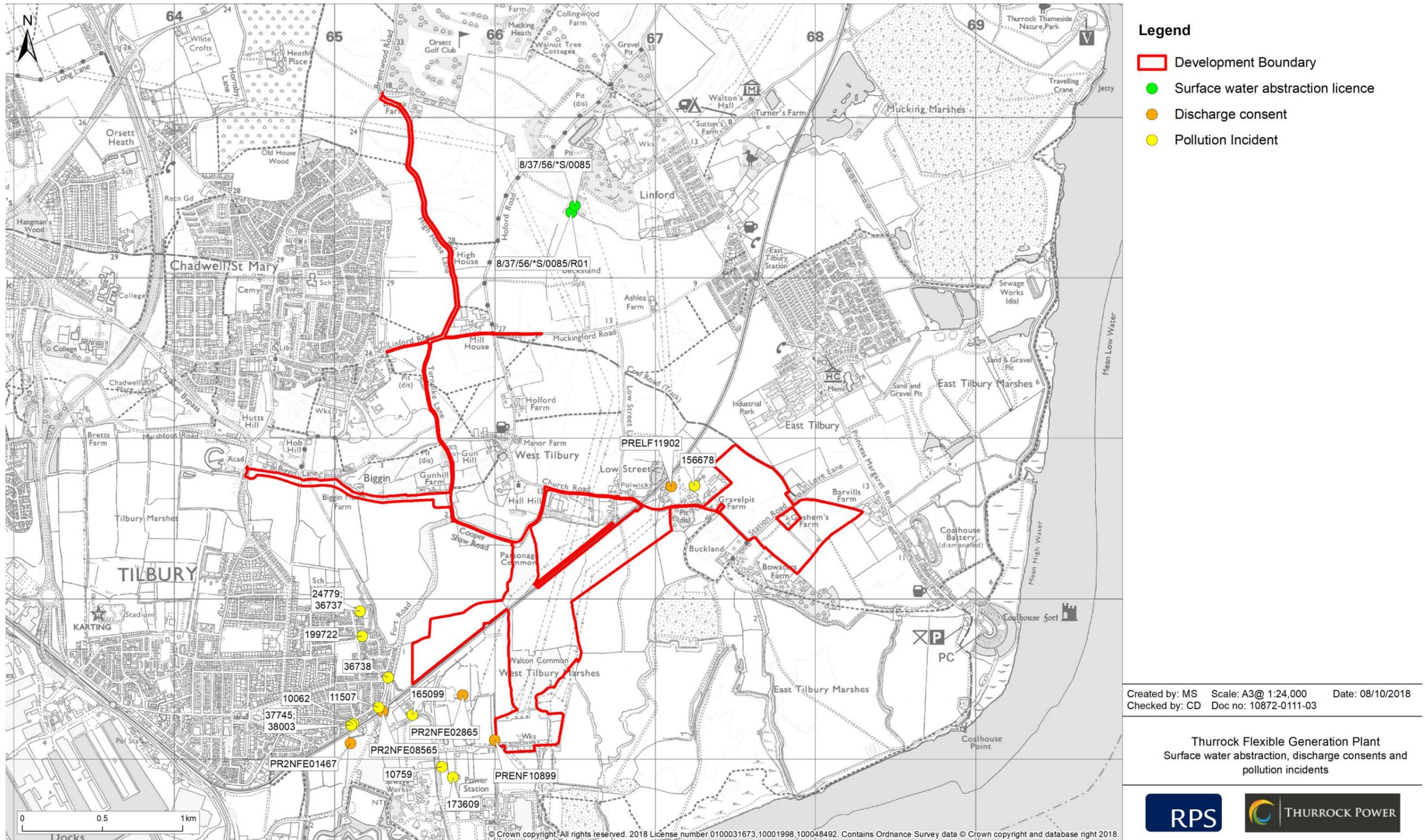


Figure 1.1: Surface water abstractions, discharge consents and pollution incidents.