



Bespoke Permit Application
Site Condition Report

Tilbury Water Recycling Centre

Anglian Water Services Ltd

May 2022

1.0 SITE DETAILS	
Name of the applicant	Anglian Water Services Ltd
Activity address	Tilbury Water Recycling Centre, Fort Road, Tilbury, Essex RM18 7NR
National grid reference	TQ 65521 75777

Document reference and dates for Site Condition Report at permit application and surrender	<p>A site condition report has been created for a 2022 permit application for the site. This includes a description of the site and environmental surrounding at the time.</p> <p>This site condition report has been produced to support the 2022 permit application. The accompanying documents should be found in the application folder.</p> <p>The site currently has a EPR permit, Standard Rules 2008 No 19 and is an existing operating site. A SCR was not created for the site as it was not required to issue a SR permit.</p> <p>Refer to various management plans in the application folder;</p> <ul style="list-style-type: none"> - Environmental risk assessment - Environmental management plan - Odour management plan <p>This is not exhaustive of the measures Anglian Water may take to protect the environment from our activities.</p>
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Document references for site plans (including location and boundaries)	<p>Site plans are in the application folder (appendices to the non technical summary). This shows the site location and permit boundary.</p>
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Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue	
Environmental setting including:	Desk survey using the British Geological Survey interactive online map shows;

<ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>The surrounding geology of the site includes clay, silt, sand and peat. Superficial deposits formed up to 2 million years ago in the Quaternary Period. The setting is sedimentary rock which are shallow-marine in origin.</p> <p>The parent material is deep prequaternary marine/estuarine sand and silt.</p> <p>Flooding from surface water is shown to be a very low risk to the sites operations as Tilbury WRC. Flooding from rivers and the sea was deemed a very low risk as the site is suitably above sea level. There has never been a flooding event at Tilbury WRC. Tilbury WRC is not in Air Quality Management Area.</p> <p>There is low risk of flooding from surface waters and very low risk from sea/rivers, as shown on the EA's long term flood risk calculator.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	<p>The site has not had pollution incidents.</p> <p>Any pollutions, if any, on the WRC have already been shared with the Environment Agency.</p> <p>There have been 8 odour complaints between 2018 and 2022. AWS are currently overhauling the odour plant on site. In 2019 the site changed to using a cake silo instead of a cake pad which improved the site.</p> <p>Since April 2023 there have been three notifications of possible odour issues, there were no known issues on site during these periods likely to cause odour. Two of these occasions were considered unlikely to be caused by this treatment works due to the wind direction on that day and the distance from the STW that the odour was observed.</p> <p>Refer to the Non Technical Summary for more information.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>To the best of AWS's knowledge. there is no historic contamination. This site has been operating for multiple years. There has been no site investigations as part of this permit application.</p>
<p>Baseline soil and groundwater reference data</p>	<p>No baseline soil or groundwater investigations have taken place as part of this EPR permit application. The site is an existing operational site.</p>
<p>Supporting information</p>	<ul style="list-style-type: none"> • Source information identifying environmental setting and pollution incidents • Historical Ordnance Survey plans • Site reconnaissance • Historical investigation / assessment / remediation / verification reports • Baseline soil and groundwater reference data

3.0 Permitted activities	
Permitted activities	<p>The permitted activities are the import of wastes to the site, and physical/chemical treatment of sludges.</p> <p>These are all permitted under 1 EPR permit: EPR/KP3090VY</p> <p>There have been no new assets built at Tilbury since the site was built.</p> <p>Details on site assets and locations are included in the main application document in the Application Folder.</p>
Non-permitted activities undertaken	The water recycling centre operates under the urban waste water treatment directive.
Document references for: <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	<p>“Tilbury Non Technical Summary” in the application folder includes a full description of the site activities and the appendices include site layout.</p> <p>The application folder includes the Environmental Risk Assessment and Management Plan.</p>

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

4.0 Changes to the activity	
Have there been any changes to the activity boundary?	The permit boundary on the existing permit is unreadable so a new one has been created for the 2022 permit application. This includes a reduced area of the site. Refer to the Tilbury Permit Area 2022 for more information.
Have there been any changes to the permitted activities?	The permitted activities are an existing water recycling centre which carries out physical and chemical treatment of sewage sludges. These are all permitted under 1 EPR permit: EPR/KP3090VY Waste codes 19 02 06 and 16 10 02 have been added to be in line with the Environment Agency's guidance on waste codes for raw cake and domestic waste. The site's activities remain the same.
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	No
Checklist of supporting information	<ul style="list-style-type: none"> • Plan showing any changes to the boundary (where relevant) • Description of the changes to the permitted activities (where relevant) • List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5.0 Measures taken to protect land	
Checklist of supporting information	<ul style="list-style-type: none"> • Inspection records and summary of findings of inspections for all pollution prevention measures • Records of maintenance, repair and replacement of pollution prevention measures

6.0 Pollution incidents that may have had an impact on land, and their remediation	
Checklist of supporting information	<ul style="list-style-type: none"> • Records of pollution incidents that may have impacted on land • Records of their investigation and remediation

7.0 Soil gas and water quality monitoring (where undertaken)

Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.

Checklist
supporting
information

of

- Description of soil gas and/or water monitoring undertaken
- Monitoring results (including graphs)

8.0 Decommissioning and removal of pollution risk

Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.

Checklist of supporting information	<ul style="list-style-type: none">• Site closure plan• List of potential sources of pollution risk• Investigation and remediation reports (where relevant)
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9.0 Reference data and remediation (where relevant)

Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.

If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.

Checklist of supporting information	<ul style="list-style-type: none">• Land and/or groundwater data collected at application (if collected)• Land and/or groundwater data collected at surrender (where needed)• Assessment of satisfactory state• Remediation and verification reports (where undertaken)
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10.0 Statement of site condition

Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:

- the permitted activities have stopped
- decommissioning is complete, and the pollution risk has been removed
- the land is in a satisfactory condition.