



Site Condition Report

Whites Recycling Limited



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SITE DETAILS

Whites Recycling Limited
Brickfields Way
Thetford
Norfolk
IP24 1HX

OPERATOR DETAILS

Whites Recycling Limited
The Mine Site
South Witham
Lincolnshire
NG33 5QN

PERMIT REFERENCE

EPR/PP3902LU

DOCUMENT REFERENCE

K390.2~09~002

ISSUE DATE

15/09/2022



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K390.2~09~002	15/09/2022	01	Final version for submission.

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ACTION	DATE	NAME
Prepared	12/01/2022	Elliott Howard
Checked	15/09/2022	Andrea Petrolati
Approved	15/09/2022	Elliott Howard

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DRAWINGS

REFERENCE	DATE	TITLE
K390.2~20~001	15/09/2022	Permit Boundary Plan
K390.2~20~002	15/09/2022	Sensitive Receptors Plan (1km)
K390.2~20~003	15/09/2022	Site Setting Plan (2km)
899-002	08/09/2022	General Arrangement Plan View (Rev E)

APPENDICES

APPENDIX	REFERENCE	TITLE
Appendix A	GS-8138300	Enviro+ Geo Insight Report

1. INTRODUCTION

This document is the Site Condition Report (SCR) that accompanies the application by Whites Recycling Limited for a Bespoke Environmental Permit (EPR/PP3902LU) for a Part A(1) Installation.

The site is operated by Whites Recycling Limited and is located at Brickfields Way, Thetford, Breckland, Norfolk, IP24 1HX. The location is shown on the Permit Boundary Plan (K390.2~20~001). The National Grid Reference for the site is TL 86728 84213 (Easting 586728, Northing 284213).

The site is situated within the jurisdiction of Norfolk County Council and is located within the Fison Way Industrial Estate, 1 km northwest of the town of Thetford and 8.5 km east-southeast of the town of Brandon. The proposed installation will cover an area of approximately 0.12 ha. The immediate surrounding area of the site is a commercial and industrial setting, with mostly agricultural areas to the north and residential areas and the town centre to the south. This is shown on the Site Setting Plan (2km) (K390.2~20~003).

This desk study has been undertaken to review records and detail the environmental setting of the Site and the surrounding area, in order to describe the condition of the Site. In particular it aims to identify any sources or pathways that may constitute a pollution risk to the relevant receptors.

2. SITE DETAILS

Name of the applicant	Whites Recycling Limited
Activity address	Brickfields Way, Thetford, Breckland, Norfolk, IP24 1HX
National grid reference	The site is centered at National Grid Reference (NGR): TL 86728 84213
Document reference & date at Permit application at Permit surrender	K390.2~09~002 Site Condition Report 2022 09 15
Document references for site plans (including location & boundaries)	K390.2~20~001 Permit Boundary Plan K390.2~20~002 Sensitive Receptors Plan (1km) K390.2~20~003 Site Setting Plan (2km) 899-002 General Arrangement Plan View – Revision E (08/09/2022)

3. CONDITION OF THE LAND AT PERMIT ISSUE

<p>Summary of operations</p>	<p>The Thetford WWTP will accept wastewater collected from food and drink manufacturers.</p> <p>The facility will receive and treat approximately 400 m³ per day of wastewaters for treatment.</p> <p>A waste processing building will allow internal delivery to Road Tankers with sealed storage tanks. The building will also house the screener and skip for the coarse screened material, a tank for holding the clarified water prior to discharge to sewer, a sealed tank for the sludge and an odour control unit. Externally three bunded tanks will be used to store Screened wastewater pre-DAF (Dissolved Air Flotation) water and treated water, with each having a capacity of approximately 225 m³.</p> <p>The activity codes as defined in the EU Waste Framework Directive 2008/98 are:</p> <ul style="list-style-type: none"> • D8 - Biological treatment resulting in final compounds or mixtures which are discarded by any of the operations numbered D1 to D12 • D15 - Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)
<p>Environmental setting including:</p> <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>Available information was provided by:</p> <ul style="list-style-type: none"> - Enviro + Geo Insight Report (Appendix A) - British Geological Survey's (BGS) online platform 'Geology of Britain' https://mapapps.bgs.ac.uk/geologyofbritain/home.html - DEFRA's online platform 'Magic' https://magic.defra.gov.uk/MagicMap.aspx - Environment Agency's online platform 'Flood Map for Planning' https://flood-map-for-planning.service.gov.uk/ <p>Geology</p> <p><i>Made Ground</i></p> <p>There are no records of artificial or made ground either on site or within 500m of the site. However, given the history of the area it is likely that some made ground would be encountered.</p>

	<p><i>Superficial Geology</i></p> <p>The superficial geology on site is Croxton sand and gravel Member, these consist of sand and gravel from the Quaternary Period.</p> <p><i>Bedrock Geology</i></p> <p>The bedrock geology on site is Lewes Nodular Chalk Formation consisting of chalk from the Cretaceous Period.</p> <p>Hydrogeology</p> <p>The superficial layer was identified as Secondary A for the majority of the site and Secondary B in the south-west corner of site. Secondary A is identified as permeable layers capable of supporting water supplies at a local level. These are generally aquifers formerly classified as minor aquifers. Secondary B classified as predominantly lower permeability layers which may store/yield limited amounts of groundwater. Formerly classified as water-bearing parts of the former non-aquifers.</p> <p>The bedrock layer was identified as Principal, possessing geology of high intergranular and/or fracture permeability, providing a high level of water storage. May support river base flow on a strategic scale. Generally, was previously a major aquifer.</p> <p>The site is not identified within a Source Protection Zone (SPZ) however there are three identified within 500m of the permitted boundary.</p> <p>The industrial estate located approximately 121 m SE and the recreational area located approximately 132 m SE of the site lie in SPZ 3 described as a total catchment. The residential area located approximately 141 m E lies in SPZ 2 described as an outer catchment area.</p> <p>No groundwater abstractions are identified within 2 km of the site boundary.</p>
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Surface water

The River Little Ouse flows approximately 1 km southwest of the site. There is also a covered reservoir some 310 m north-northwest of the site.

There are no surface water abstractions identified within 2 km of the site boundary. Using the Environment Agency's 'Flood Map for Planning' it was identified that the site is not situated in a flood zone. The highest surface water flood risk on site is situated on the western boundary with a small area likely to flood during a 1 in 1000-year rainfall event to a depth of 0.3 m – 1 m.

Within 50 m of the site, towards the west, is an area identified as at risk of surface water flooding during a 1 in 30-year rainfall event to a depth between 0.1 m – 0.3 m.

Designated Sensitive Sites

The closest designated site is the Breckland Forest Site of Special Scientific Interest (SSSI) which lies approximately 1 km west of the site. These sites are mapped on plans K390.2~20~002 & K390.2~20~003.

A Special Protection Area is located approximately 985 m west of the site boundary, whilst a more exhaustive list of others can be found in Appendix A.

Mining

Underground mining (non-coal) is known or likely to have taken place on the northern boundary of the site and in several other areas within 500 m. The area on the northern boundary has a couple of cavity points but not a natural cavity area. Four BritPits are located within 500 m of the site, ID A 124 m NW, ID B 167 m E, ID F 245 m SW and ID H 340 m NW. ID A or Mundford Brick Works was a surface mineral working and dealt with clay and shale and site has now ceased to operate. ID B or Thetford Pit was surface mineral working and dealt with sand & gravel extraction. The site has ceased to operate. ID F or Mundfrod Road Clay Pit was a surface mineral working dealing in clay & shale extraction. ID H or Gallow Hill Clay Pit was a surface mineral working dealing in clay and shale but has ceased operation.

	<p>Another mining operation for which the name was not available, was located on site. This was a chalk mining operation and that was sporadic in nature and of a restricted extent, potential for difficult ground conditions is unlikely and localised to a point where they need not be considered. Other non-coal mining operations are identified but in excess of 500 m from site. These are detailed in Appendix A.</p> <p>Radon</p> <p>The site is located within a radon affected area, however <1% of properties are deemed to be affected and radon protection measures are not required in the construction of new dwellings or buildings at the site.</p> <p>Permits & Authorisations</p> <p>The only permit identified at the site is the one to which this document supports. The following were identified in the surrounding area:</p> <p><i>Historical Landfill</i></p> <p>Three sites identified, the closest of which 73 m NW an Inert Landfill operated by Thetford Borough Council in 1971.</p> <p><i>Licensed waste sites</i></p> <p>14 sites identified within 500 m, closest 217 m SW namely Thetford Recycling Centre, operated by Norfolk Environmental Services since 2013.</p> <p>Waste exemptions</p> <p>37 waste exemptions identified within a 500 m buffer of site, the closest 47 m NW which seeks to deposit samples of waste for the purposes of testing or analysing.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land 	<p>Historically the site and the surrounding area has had varied industrial use. Waste activities mainly relate to household, commercial & industrial waste transfer stations. The closest historic landfill identified was operating in the 1970s and accepted inert waste.</p>

<ul style="list-style-type: none"> historical land-uses & associated contaminants any visual/olfactory evidence of existing contamination evidence of damage to pollution prevention measures 	<p>Currently the immediate land use surrounding the site relates to electricity sub stations, motor and engineering services, storage services and production of industrial products.</p> <p>No pollution incidents have taken place on site with the closest identified 389 m NW which occurred in 2003, categorized as no water impact and minimum air or land.</p>
<p>Evidence of historic contamination.</p> <ul style="list-style-type: none"> Historical site investigation, assessment, remediation & verification reports (where available) 	<p>The site has experienced limited development in its history. Some industrial activities have taken place on site on the western and northern boundaries but details regarding these are limited, instead classified as an 'unspecified depot' but likely to be in relation to brick works.</p> <p>Using satellite imagery and street view images it looks as if a portion of the site is currently used for van storage for the rental company BMR. The other half is an area of vegetation.</p> <p>It is unlikely that significant pollution has occurred to cause any land contamination whilst the proposed land use is in keeping with the surrounding area.</p>
<p>Baseline soil & groundwater reference data</p>	<p>There has been no monitoring at the Site to form a baseline.</p>
<p>Supporting information</p>	<ul style="list-style-type: none"> Reference: GS 8138300 Enviro +Geo Insight Report (Appendix A) British Geological Survey's (BGS) online platform 'Geology of Britain' https://mapapps.bgs.ac.uk/geologyofbritain/home.html DEFRA's online platform 'Magic' https://magic.defra.gov.uk/MagicMap.aspx Environment Agency's online platform 'Flood Map for Planning' https://flood-map-for-planning.service.gov.uk/ Satellite imagery and street view images

4. PERMITTED ACTIVITIES

Permitted activities	The site will operate as a Scheduled activity to accept wastewater collected from food and drink manufacturers for treatment and eventual discharge to sewer.
Non-permitted activities undertaken	None
Document references for: <ul style="list-style-type: none"> • Site layout plan • Environmental risk assessment 	<p>899-002 General Arrangement Plan View (Rev E, 08/09/2022)</p> <p>K390.2~11~001 Environmental Risk Assessment 2022 09 02</p>

5. CHANGES TO THE ACTIVITY

Changes to the activity boundary?	[Describe and provide reference [Title, date, revision, Appendix] to Plan that shows changes]
Changes to the permitted activities?	[Summary of changes to activities, R & D codes]
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	
Checklist of supporting information	[Title, date, revision, Appendix]

6. MEASURES TAKEN TO PROTECT LAND

Checklist of Supporting Information	

7. POLLUTION INCIDENTS THAT MAY HAVE HAD AN IMPACT ON LAND, AND THEIR REMEDIATION

Checklist of Supporting Information	

8. SOIL, GAS AND WATER QUALITY MONITORING (WHERE UNDERTAKEN)

Checklist of Supporting Information	
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9. DECOMMISSIONING AND REMOVAL OF POLLUTION RISK

Checklist of Supporting Information	
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10. REFERENCE DATA AND REMEDIATION (WHERE RELEVANT)

[Text here]	
Checklist Supporting Information	of

11. STATEMENT OF SITE CONDITION

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