



Non-Technical Summary

Recorra Limited



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SITE DETAILS

Units 38/39 Juliette Way,
Purfleet Industrial Park,
Purfleet,
Essex,
RM15 4YA

OPERATOR DETAILS

Recorra Limited,
52 Lant Street,
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PERMIT REFERENCE

EPR/EB3135AD

DOCUMENT REFERENCE

K529.1~09~004

ISSUE DATE

24/06/2026



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DOCUMENT CONTROL

DOCUMENT TITLE:	Non-Technical Summary
REFERENCE:	K529.1~09~004
CLIENT:	Recorra Ltd
REPORTED BY:	Wiser Environment Limited
STATUS:	Final
ISSUE:	02
ISSUE DATE:	24/06/2026
AUTHOR:	Wiser Environment Limited
APPROVED BY:	Lyndsay Edwards (Recorra Ltd)

REVISION HISTORY

REFERENCE	DATE	ISSUE:	REVISION SUMMARY
K529.1~09~004	24/06/2026	02	Amendments for RFI submission.
K529.1~09~004	20/01/2026	01	Finalised ahead of submission.
K529.1~09~004	10/12/2025	D2	Amendments following client feedback.
K529.1~09~004	04/11/2025	D1	For client review.

QUALITY CONTROL

ACTION	DATE	NAME
Prepared	04/11/2025	Philippa Howes
Checked	05/11/2025	Elliott Howard
Approved	10/12/2025	Philippa Howes
Amended	24/06/2026	Elliott Howard

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1. INTRODUCTION

This document is the Non-Technical Summary (NTS) that accompanies the application for a Normal Variation to amalgamate the existing Environmental Permits (EPR/EB3135AD) and S2 Exemption at Units 38-39 Juliette Way, Purfleet Industrial Park, Purfleet, Essex, RM15 4YA. The site is located at National Grid Reference TQ 55146 79591.

Operations at the site involve the receipt, storage, treatment and dispatch of predominantly non-hazardous waste, although there will be a small proportion of hazardous wastes to be stored on site, and outlined in the List of Waste (K529.1~09~008). The waste operations are subject to the requirements as stipulated in the Environmental Permitting (England and Wales) Regulations 2010 (as amended). Treatment operations are limited to baling, shredding and manual (including mobile plant assisted) sorting/separation and compaction.

Operations at the site are currently covered by the following Standard Rules Permits plus a Waste Exemption;

- Standard Rules SR2008No14_75kte – Materials Recycling Facility
- Standard Rules SR2008No23_75kte – Waste Electrical and Electronic Equipment Authorised Treatment Facility (ATF) excluding ozone depleting substances
- S2 waste exemption WEX474918: storing waste in a secure place

The aim of this application is to amalgamate the above Permits and Exemption, while adding additional EWC codes consisting of hazardous and non-hazardous materials.

The source of these waste streams is from building clearances allowing for the acceptance and storage on site of all likely items cleared. Additional streams sought as part of this variation may not necessarily form a consistent feedstock onsite but are required owing to the diverse potential wastes discovered as part of fulfilment of clearance contracts.

See the List of Waste (Complete) (K529.1~09~008) for all waste that will be accepted and stored onsite. See List of Waste (New Codes) (K529.1~09~009) for all new codes including the S2 exemption codes.

The S2 exemption is currently covering the yard area to the south of the building. The permit boundary will therefore be amended to accommodate these activities. See Permit Boundary Plan (K529.1~09~001).

The following waste management operations will be carried out at the facility (codes taken from Waste Framework Directive 2008/98/EC Annex II):

- **R3:** Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
- **R4:** Recycling or reclamation of metal and metal compounds.
- **R5:** Recycling or reclamation of other inorganic materials.
- **R13:** Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection on the site where the waste is produced).
- **D15:** Storage pending D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).

The maximum tonnage of permitted wastes to be processed by the facility during any one year shall not exceed 100,000 tonnes. The waste tonnage split is categorised as follows:

- Materials Recycling Facility (SR2008No14) – 75,000tpa
- WEEE Authorised Treatment Facility (SR2008No23) – 25,000tpa

The maximum amount of waste stored at the site at any one time shall not exceed 5,000 tonnes.

The maximum treatment capacity of the facility per day shall not exceed 400 tonnes (assuming all waste input in one day is treated within 24 hours).

The application has been prepared by Wiser Environment Limited on behalf of the applicant Recorra Ltd.

This NTS summarises the proposed amalgamation and changes to the existing Standard Rules Permits and an S2 Exemption and should be read in conjunction with the other supporting documents included within the application.

2. APPLICATION

This application is for a normal permit variation on an existing Standard Rules permit (EPR/EB3135AD) to a Bespoke Permit and has been prepared under the Environmental Permitting (England and Wales) Regulations 2016 (as amended) for a Waste Operation.

The scope of this application is limited to the amalgamation of two Standard Rules permits and an S2 Waste Exemption.

2.1. Site Location

The site address is Units 38/39 Juliette Way, Purfleet Industrial Park, Purfleet, Essex, RM15 4YA. The facility is located at the southern end of Purfleet Industrial Park and occupies an industrial unit which was formerly occupied by the Ensign Bus Company. The Industrial Park site is situated to the west northwest of the conurbations of Purfleet and West Thurrock, Essex, directly south of the A13 and A1306 London/Arterial Road. The site can be found at National Grid Reference: TQ 55146 79591.

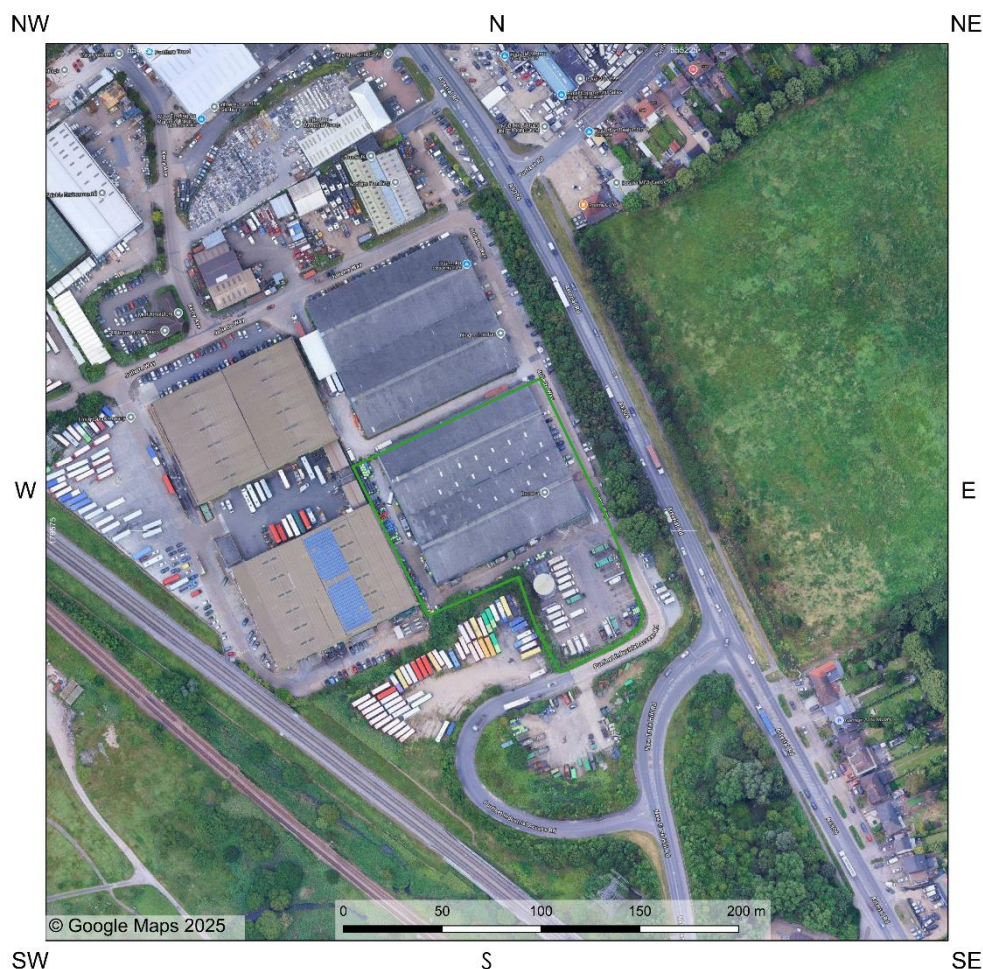


Figure 1 Aerial image of the site, showing the permit boundary in green

2.2. Environmental Setting

The environmental setting of the site is summarised in Table 1. A more detailed description of the site setting can be found in the Environmental Risk Assessment (ERA) (K529.1~09~003) within Section 05 of the application pack:

Table 1 Summary of Site Setting

RECEPTOR	DESCRIPTION AND LOCATION
Humans and Property	The surrounding environmental setting is predominantly commercial
Surface Water	There are 4 surface water features located within 250 m of the site. There is one Water Framework Directive (WFD) surface water body catchment (Southall Sewer and Running water Brook water body ID GB106037028090) located on site. The operation catchment for this surface water body is Roding Beam and Ingrebourne and the management catchment is Roding Beam and Ingrebourne.
Groundwater	The site is underlain by a Secondary (Undifferentiated) superficial aquifer. The Secondary Undifferentiated aquifer is assigned where it is not possible to attribute either category A or B to a rock type. In general, these layers have previously been designated as both minor and on-aquifer in different locations due to the variable characteristics of the rock type. The site is also underlain by a Secondary A bedrock aquifer. The Secondary A aquifer is a permeable layer capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.
Designated Sites	The site is adjacent to the Inner Thames SSSI to the west and the Purfleet Road Aveley SSSI to the East.
Non-Statutory Designated Sites	A series of non-statutory designated environmental sites are located within 2 km of the permit boundary. Four London Green Belts are recorded within 2000 m of the site. These green belts are located 28m E, 591m N, 1757m SW & 1767m SW. Within 2000 m of the sites, there are four Nitrate Vulnerable Zones; Mardyke NVZ (located onsite & 1170m SW), Southall Sewer and Running Water Brook NVZ (located onsite & 973m W). There are 22 records of Priority Habitat Inventory all related to Coastal and floodplain grazing marsh.

RECEPTOR	DESCRIPTION AND LOCATION
	The locations relative to the permit boundary are also shown on the Site Setting Plan (K529.1~20~003).
Geology	The superficial geology deposits identified on site is Head (LEX Code HEAD-XCZSV) described as Clay, Silt, Sand and Gravel. The bedrock geology onsite and within 50 metres is Thanet Sand Formation – Sand of the Thanetian Age (LEX Code TAB-SANDU). The bedrock permeability onsite is of an intergranular flow type with a high minimum and maximum permeability.
Flooding	The site has a very low flood risk from surface water, rivers and the sea from the Environment Agency.

3. PERMITTED OPERATIONS

3.1. Waste Acceptance

Recorra Limited accepts predominantly non-hazardous waste, although there will be a small proportion of hazardous wastes to be stored on site, and outlined in the List of Waste (K529.1~09~009). The maximum annual throughput is 100,000 tonnes. The waste tonnage split is categorised as follows:

- Materials Recycling Facility (SR2008No14) – 75,000tpa
- WEEE Authorised Treatment Facility (SR2008No23) – 75,000tpa

Wastes are delivered to the facility by a combination of heavy and light goods vehicles. The intention of on-site acceptance procedures is to verify and characterise the waste as it arrives at the waste facility. Wastes will not be accepted at the waste facility unless an assessment has been made of the suitability for treatment and recovery.

The Management System Summary (MSS) (K529.1~09~001) describes the Waste Acceptance Procedure for the site.

The permitted operations on site are listed below.

Description of Activities		Limits of Activities
R3	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).	Treatment consisting only of manual and mechanical sorting, dismantling, separation, screening, grading, baling, shredding, crushing, compacting, repair or refurbishment, or cutting of waste into different components for recovery. Storage prior to processing/dispatch.
R4	Recycling or reclamation of metal and metal compounds.	
R5	Recycling or reclamation of other inorganic materials.	
R13	Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection on the site where the waste is produced).	
D15	Storage pending D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).	

Treatment operations are described below and within the Management System Summary (Section 4, K529.1~09~001) in detail. The variation, in accordance with pre-application discussions has been divided into the following activities:

- Hazardous Waste Transfer Station (1.16.5)
- Material Recycling Facility (1.16.11)
- Physical treatment of non-hazardous waste (1.16.12)
- Metals Recycling Facility – WEEE ATF (1.16.16)

Hazardous Waste Transfer Station

No treatment operations are undertaken under this activity, only sorting and bulking of wastes prior to dispatch for recovery or disposal. The new hazardous waste EWC codes added to the permit reflect the wastes intended for this activity and those previously covered by the S2 exemption.

Material Recycling Facility

The Material Recycling Facility is limited to household and municipal wastes, both source-segregated and mixed recyclates. Treatment activities consist of sorting, separation, screening, baling, shredding and compaction.

Physical treatment of non-hazardous waste

Physical treatment is limited to the activities above, namely the sorting, separation, baling, shredding and compaction of non-hazardous wastes.

Metal Recycling Facility – WEEE ATF

The WEEE ATF treatment activities consists of sorting, dismantling, separation, shredding, screening, grading, shearing or cutting of WEEE in preparation for recovery. Activities are not to change from those previously permitted under the standard rules permit.

3.2. Waste Processing

The facility allows for the recycling of co-mingled and source separated recyclates (paper, cardboard, glass, plastics, metal (e.g. cans) and food waste) and used electrical and WEEE wastes. Recyclates are treated (e.g. separation, sorting, baling and bulking) and used electricals and WEEE wastes will be prepared for re-use and broken down into component parts for recycling.

As part of the paper recycling, a confidential shredding operation takes place within a secure designated area within the main treatment building.

The facility can be broadly divided into the types of materials it will be processing, namely recyclates and WEEE waste. The main operational processes that will occur at the waste facility can be sub-divided into the following process phases:

Mixed Recyclates

- Pre-treatment storage
- Co-mingled recyclate separation
- Recyclate treatment consisting of manual & automated sorting, separation, and screening within the main building
- Baling, shredding and compaction of waste into different components for recovery
- Confidential shredding of paper-based documents and preparation for recover
- Storage and/or Container loading for removal off site

Used Electricals and WEEE Wastes

- Separate storage and reception of used electricals and WEEE Wastes pending treatment
- Treatment of used electricals and WEEE wastes consisting of sorting, dismantling, separation, shredding, screening, grading, shearing or cutting of materials in preparation for recovery
- Preparation and treatment of used electricals and WEEE wastes for re-use
- Storage and/or Container loading of used electrical and WEEE waste components in readiness for off-site removal

Recorra Ltd will employ equipment based upon the longstanding and accepted MRF and WEEE ATF recycling processes.

Bulking Operations

The source of these waste streams is from municipal contracts and building clearances allowing for the acceptance and storage on site of all likely items cleared. Additional streams sought as part of this variation may not necessarily form a consistent feedstock onsite but are required owing to the diverse potential wastes discovered as part of fulfilment of clearance contracts.

3.3. Site Management

A Technically Competent Manager (TCM) manages the operation and regularly attends site in compliance with the defined attendance requirement. A site supervisor is responsible for the ongoing operation and may also undertake office and plant operation duties.

During hours of operation there will be a minimum of one member of staff on site, who will be fill conversant with the requirements of the Permit and the Management System regarding the following:

- Waste acceptance and control procedures;
- Operational controls and environmental monitoring;
- Maintenance;
- Record keeping;
- Emergency action plans; and
- Notifications to the Environment Agency.

Any person having duties that are or may be affected by the matters set out in the Environmental Permit EPR/EB3135AD shall have access to a copy of it.

The operator shall comply with the requirements of an approved competence scheme.

4. RISK ASSESSMENT & MANAGEMENT

An Environmental Risk Assessment (ERA) (K529.1~09~003) is included in Section 5 of the application pack. The ERA details the key management measures for the protection of the environment, with regards to emissions to surface water, groundwater, land, and air (including noise and odour).

The site is operated by Recorra Ltd, a Management System Summary (MSS) (K529.1~09~001) has been developed and is included within in Section 4 of the application pack to reflect and control site operations, environmental management, emissions and monitoring. The MSS defines operational and maintenance procedures and details requirements in the event of an accident or incident.

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