

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

European Metal Recycling Limited

European Metal Recycling – Fridge Destruction
Bentley Road South
Darlaston
West Midlands
WS10 8LW

Variation application number

EPR/GP3292FT/V009 and EPR/GP3292FT/V010

Permit number

EPR/GP3292FT

European Metal Recycling - Fridge Destruction

Permit number EPR/GP3292FT

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

The consolidated variation authorises the following changes:

Changes introduced by variation application made by the operator – EPR/GP3292FT/V009

This variation includes the amendment of Table S1.1 to add the new fridge destruction plant under:

- S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.

It replaces the two existing installations (green line and blue line) and is located approximately 50m to the North-East of the existing installations. The existing installations will be decommissioned on completion of the commissioning of the new fridge destruction plant.

An increase in the permitted area for this installation by adjusting the permit boundary of the adjacent EMR site (EPR/LP3492FA). A partial surrender application was made for EPR/LP3492LA and completed on 17/04/2024. The surrendered area is incorporated into new site plans for this permit.

Changes introduced by this variation notice/statutory review - EPR/GP3292FT/V010

This variation has been issued to implement guidance “Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities” (including additional guidance Waste temperature exchange equipment (WTEE): appropriate measures for permitted facilities).

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

The appropriate measures for WEEE were published on gov.uk on 13 July 2022. The guidance explains the standards that are relevant to regulated facilities with an environmental permit to treat or transfer relevant wastes, providing indicative BAT for those sites.

This permit variation includes updates to some of the conditions following a statutory review of the permits in the WEEE treatment and transfer and metal shredding sectors and to implement the appropriate measures guidance. The opportunity has also been taken to consolidate the original permit and subsequent variations where appropriate.

Brief description of the process

The regulated facility comprises:

A fridge destruction plant with a capacity of more than 10 tonnes per day and there is storage of hazardous waste of more than 50 tonnes consisting of refrigeration units. These activities fall under the Industrial Emissions Directive:

- S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment; and
- S5.6 A(1) (a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.

The remaining waste operation on site is:

- Metal recycling.

The bespoke fridge destruction plant installation will operate in 2 stages: Stage 1 – Degassing and Stage 2 – Destruction. It includes a 'robotic' system upfront to identify Volatile Fluorinated Compound gas containing units.

The Volatile Halogenated Compound (VHC) refrigerant will be removed at Stage 1 using a suction head and drill. The oil/gas removed from the compressor is further treated by heating of the oil and removal of the respective gas by condensation. The VHC gas is recovered and sent to the Regenerative Thermal Oxidiser (RTO).

For Stage 2, the WTEE carcass and loose articles are dropped by gravity into a shredder which breaks the WTEE units into liberated particles (approx. 34mm). The shredded material leaves the shredding chamber via a sealed discharge screw, directly on to a vibratory feeder. At this stage the ferrous metal is removed by a magnet and transported into an external bay. The liberated PU foam is extracted by suction and transported to a sealed silo. Once collected the foam is passed through a double pelletising system and transported into an external bagging station. As the process generates heat, residual VHC gases and water are driven from the foam and separately collected. Nitrogen gas, generated by a bespoke N₂ generator, is introduced at this stage to act as a cooling gas due to the heat generated. The liberated gas is transferred to the RTO and the water collected for discharge.

The non-ferrous metal and plastic enter a secondary size reduction shredder (approx. 22mm) before being passed over an eddy current separator to affect the separation of non-ferrous metals from the residual plastic. The non-ferrous metals are passed over a screener (approx. 15mm) and into a hammer mill for balling. Once balled they are further refined with use of an air table to separate light and heavy non-ferrous metal fractions. The remaining plastic is transferred to the outside of the building into bulk bags.

The treatment process for refrigeration units has a throughput of 25,000 tonnes per year.

The non-ferrous depot will be producing bales to ready wastes for sale and processing non-hazardous cable through one or two cable strippers. The maximum treatment is estimated at 10T/day with the outputs comprising metals, paper cores and plastic sheath.

There is one point source emission to air from the RTO stack. Only clean uncontaminated surface water will be discharged to Walsall Canal. Process waters will be removed off site for disposal.

The site is located at Darlaston in the West Midlands to the north of Walsall Canal. It is within 50m of human receptors and there is one statutory designated site of international importance within 10km of the site, this is the Cannock Extension Canal (SAC), located 7km north-east of the site.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Permit granted EAWML 40099	28/04/03	Permit granted to European Metal Recycling Limited.
Variation issued EAWML 40099	07/11/08	Environment Agency initiated variation to add WEEE conditions.
Variation issued EAWML 40099	11/12/09	Environment Agency initiated variation to amend interpretation to WEEE conditions.
Variation issued EPR/GP3292FT/V004	05/05/11	Full permit update, incorporation of activities previously operating under paragraph 45 exemption by adding waste codes and increasing annual throughput.
Consolidated permit issued EPR/GP3292FT/V005	05/05/11	Consolidation of EAWML 40099 (EPR/GP3292FT) and EAWML 40110 (EPR/KP3292FZ).
Variation issued EPR/GP3292FT/V006	21/08/14	Increase in treatment capacity and storage of recovered materials.
Variation application EPR/GP3292FT/V007	Duly made 24/09/14	Application to vary and update the permit to IED conditions.
Further information received	08/02/17	Additional waste codes.
Variation determined EPR/GP3292FT (Billing reference: FP3232WR)	24/02/17	Variation issued in modern condition format.
Variation application (variation and consolidation) EPR/GP3292FT/V009	Duly made 01/08/2023	Application to add new fridge destruction plant and increase the permitted area.
Request For Information sent to operator	20/09/2023	Further information to demonstrate compliance with BAT, updates to the FPP and DEMP.
Request for Further Information response	25/10/2023	Response received from the operator.
Request For Information sent to operator	08/12/2023	Further information to demonstrate compliance with BAT, updates to the FPP and the Air Quality Modelling Report.
Request for Further Information response	12/01/2024	Response received from the operator.
Request For Information sent to operator	26/04/2024	Further updates to the Environment Management Plan and the FPP.
Request for Further Information response	20/05/2024	Response received from the operator.
Variation application (variation and consolidation) EPR/GP3292FT/V010	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018 and Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities published 13 July 2022, Treating metal waste in shredders:

Status log of the permit		
Description	Date	Comments
		appropriate measures for permitted facilities published 20 October 2021.
Regulation 61 Notice sent to Operator	20/04/2022	Regulation 61 Notice requiring information for statutory review of permit.
Regulation 61 Notice response	29/08/2022	Response received from the operator.
Environment Agency Treatment Sector Review Permit reviewed Variation determined EPR/GP3292FT	02/08/2024	Varied and consolidated permit issued. Variation V009 and V010 have been issued as one notice.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/GP3292FT

Issued to

European Metal Recycling Limited (“the operator”)

whose registered office is

**Sirius House
Delta Crescent
Westbrook
Warrington
Cheshire
WA5 7NS**

company registration number 02594623

to operate regulated facilities at

**European Metal Recycling – Fridge Destruction
Bentley Road South
Darlaston
West Midlands
WS10 8LW**

to the extent set out in the schedules.

The notice shall take effect from 02/08/2024

Name	Date
Sarah Woodruff	02/08/2024

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

The following conditions incorporate the changes introduced by variation application made by the operator:

- Table S1.1, as referenced in conditions 2.1.1, 2.3.3 and 2.4.1, has been amended to add a hazardous waste treatment activity and DAA's for associated waste storage and the RTO.
- Table S1.2, as referenced in conditions 2.3.1 and 2.3.2 has been amended to include operating techniques for the new hazardous waste treatment activity and associated DAA's, the approved Environmental Management Plan, approved Fire Prevention Plan and approved Emissions Management Plan.
- Table 3.1, as referenced in conditions 3.1.1 and 3.5.1, has been amended to include monitoring requirements for the new point source emission to air for the new hazardous waste treatment activity.
- Table 3.3, as referenced in condition 3.5.1, has been amended to include process monitoring requirements associated with the RTO which serves the new hazardous waste treatment activity.
- The Site Plan, as referenced in condition 2.2.1 and at Schedule 7 to the permit has been updated to include the revised site boundary.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GP3292FT

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3292FT/V009 and EPR/GP3292FT/V010 authorising,

European Metal Recycling Limited (“the operator”),

whose registered office is

**Sirius House
Delta Crescent
Westbrook
Warrington
Cheshire
WA5 7NS**

company registration number 02594623

to operate an installation and waste operations at

**Bentley Road South
Darlaston
West Midlands
WS10 8LW**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Sarah Woodruff	02/08/2024

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR10) The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR10) The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.1.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR10), waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2 to S1.5, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 to S1.5, or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.3 All activities shall take place on impermeable surfaces with sealed drainage, unless otherwise specified in Table S1.1 or agreed in writing with the Environment Agency.

2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.5 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table(s) S2.2 and S2.3; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.6 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous properties associated with the waste, if applicable; and
- (e) the waste code of the waste.

2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

- 2.3.8 For the activities referenced as AR1, AR2 and AR3 in schedule 1, table S1.1 where any of the following situations arise, the operator shall, as soon as is practicable, cease the treatment of waste until normal operation can be restored:
- (a) failure of the contained environment; or
 - (b) breach of a relevant Lower Explosive Limit (LEL) or Limiting Oxygen Concentration (LOC).
- 2.3.9 Following the cessation of treatment under condition 2.3.8 the operator shall not recommence treatment unless:
- (a) the failed equipment is repaired and brought back into normal operation; and
 - (b) gas concentrations remain below any relevant lower explosive limit or limiting oxygen concentration.

2.4 Hazardous waste storage and treatment

- 2.4.1 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.5 WEEE treatment

- 2.5.1 As a minimum, the substances, preparations and components specified in table 1.3 shall be removed from any WEEE unless the WEEE is being prepared for re-use or the operator has taken appropriate measures to ensure their removal following transfer off site.
- 2.5.2 Unless otherwise agreed in writing by the Environment Agency, WEEE and components of WEEE shall be treated in accordance with the methods and standards specified in table S1.4, unless it is being prepared for re-use or the operator has taken appropriate measures to ensure such treatment following transfer off site.

2.6 Improvement programme

- 2.6.1 The operator shall complete the improvements specified in schedule 1 table S1.5 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.6.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.7 Pre-operational conditions

- 2.7.1 The operations specified in schedule 1 table S1.6 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
 - (b) process monitoring specified in table S3.3;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall

have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.6 Fire prevention

- 3.6.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production /treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and

- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous year.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1: Fridge Destruction – Green Plant	S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	Treatment of refrigeration units consisting of sorting, separation, grading, shredding, baling, compacting, crushing, granulation, cutting, condensing, and degassing in line the standards in Tables S1.3, S1.4 and S1.5. Treatment of refrigeration units shall be carried out within a building provided with weatherproof covering. Waste types suitable for acceptance are limited to those specified in Table S2.3. Treatment is limited to refrigeration units containing pentane, cyclopentane or hydrocarbon blowing agents only. Treatment will cease 6 months from permit issue and in accordance with Improvement Condition IC7 in Table 1.5.
AR2: Fridge Destruction – Blue Plant	S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	Treatment of refrigeration units consisting of sorting, separation, grading, shredding, baling, compacting, crushing, granulation, cutting, condensing, and degassing in line the standards in Tables S1.3, S1.4 and S1.5. Treatment of refrigeration units shall be carried out within a building provided with weatherproof covering. Waste types suitable for acceptance are limited to those specified in Table S2.3. Treatment will cease 6 months from permit issue and in accordance with Improvement Condition IC7 in Table 1.5.
AR3: New Fridge Destruction Plant	S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-	Treatment of waste temperature exchange equipment, involving stage 1 degassing and stage 2 destruction processes R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds	From treatment of waste by degassing and destruction to storage of treated waste. Treatment of waste temperature exchange equipment involving: <ul style="list-style-type: none"> Stage 1 degassing of equipment, with collection of oil and refrigerant gas

	chemical treatment.	R5: Recycling/reclamation of other inorganic materials	<ul style="list-style-type: none"> Stage 2 mechanical destruction of degassed equipment and dismantled insulation panels, including the sorting, separation of plastic, metal and foam fractions, and treatment of foam to remove and capture the blowing agent, which is sent to the RTO (AR10) for onsite destruction. <p>Stage 2 destruction is limited to the treatment of waste that does not contain VFCs (including CFCs, HCFCs and HFCs).</p> <p>Treatment of refrigeration units shall be carried out within a building provided with weatherproof covering.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p> <p>There shall be no treatment of fridges containing NH₃</p> <p>No more than 125 tonnes of waste shall be treated per day.</p> <p>Treated waste shall be stored on an impermeable surface with a sealed drainage system prior to transfer off-site for no longer than 6 months not withstanding the time limits set within the various management plans for the site.</p>
AR4	Section 5.6 A(1)(a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3	Storage of hazardous waste pending on-site treatment or off-site transfer R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	<p>From receipt and storage of hazardous waste on site to its treatment or repackaging on site; or its transfer off-site.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p> <p>WTEE shall not be stored for more than 3 months without prior written approval from the Environment Agency.</p> <p>WTEE must be stored on level ground and on an impermeable surface provided with sealed drainage.</p> <p>Storage of WTEE shall not exceed a maximum storage height of 3.5 metres.</p> <p>Storage capacity of WTEE shall not exceed 1170 tonnes at any one time.</p>

Directly Associated Activities			
AR5	Physical treatment for the purpose of recycling	Manual and mechanical sorting, segregation and grading of non-hazardous fractions resulting from the shredding of wastes containing ferrous and non-ferrous metals. R3: Recycling/ reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From treatment consisting of sorting, separation and grading to storage of treated waste. Treated waste shall be stored on an impermeable surface with a sealed drainage system prior to transfer off-site for no longer than 6 months not withstanding the time limits set within the various management plans for the site.
AR6	Storage of non-hazardous waste pending treatment	Storage of non-hazardous waste pending A1, A2 and A3 R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt of waste to storage of waste prior to treatment by AR1, AR2 and AR3 Storage for no more than 6 months prior to treatment or transfer. Waste types suitable for acceptance are limited to those specified in Table S2.3.
AR7	Raw materials storage	Storage of raw materials including nitrogen (used in fridge plants), foam (used in some shredders), and diesel. (if diesel powered shredders)	From the receipt of raw materials to despatch for use within the facility
AR8	Process water collection and storage	Collection and storage of process water from fridge destruction plant (AR3) in septic tank (FMWH6).	From the collection of process water removal off-site for disposal or recovery.
AR9	Site drainage discharge	Discharge of uncontaminated surface water to controlled waters.	Collected surface water to pass through oil interceptor to Walsall Canal at Surface Water Discharge Point as shown on the site plan in schedule 7
AR10	Regenerative thermal oxidiser (RTO)	RTO serving the stage 2 fridge destruction plant (AR3) and used to destroy the captured insulation foam blowing agent	99.99% destruction efficiency must be achieved and maintained at all times
Waste Operations			
Activity reference	Description of activities for waste operations		Limits of activities
AR11	Metal Recycling R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) R4: Recycling/ reclamation of metals and metal compounds		Treatment operations shall be limited to: <ul style="list-style-type: none">• Treatment consisting only of sorting, separation, bailing/repackaging , stripping and manual separation of non-hazardous waste into different components for recovery.

		<p>There shall be no treatment of batteries, other than sorting and separating from other wastes, and repackaging for third party processing.</p> <p>Subject to any other requirements of this permit, wastes shall be stored for no longer than 6 months not withstanding the time limits set within the various management plans for the site.</p> <p>Uncontaminated ferrous metal wastes or alloys and uncontaminated non-ferrous metal wastes shall be stored on hard standing or an impermeable surface.</p> <p>All batteries shall be stored in either appropriate weatherproof containers, or in appropriate containers within a building on an impermeable surface with a sealed drainage system.</p> <p>Lead acid batteries shall be stored upright with terminals taped off or capped in acid proof containers to prevent leaks and short circuits.</p> <p>Nickel metal hydride (Ni-MH) batteries shall be stored in a way that will prevent them being damaged.</p> <p>Li-ion batteries from electric vehicles shall be stored separately from other batteries.</p> <p>Li-ion batteries shall be stored to prevent them from:</p> <ul style="list-style-type: none"> • coming into contact with any liquids • being damaged or shorting • being exposed to high temperatures <p>Batteries shall be stored on site for no longer than 6 months.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
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Table S1.2 Operating techniques		
Description	Parts	Date Received
Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities Version published 13 July 2022	All parts of the appropriate measures guidance shall apply for activities listed in Table S1.1 (excluding AR1 and AR2 which shall be decommissioned in accordance with the plan agreed under IC7.)	
Waste temperature exchange equipment: appropriate measures for permitted facilities Version published 13 July 2022	All parts of the appropriate measures guidance shall apply for activities listed in Table S1.1 (excluding AR1 and AR2 which shall be decommissioned in accordance with the plan agreed under IC7.)	
Application EPR/GP3292FT/V007	Section 2, 3, 4, 5 and 6 of the application document and the information contained in the non-technical summary applicable to AR1 and AR2 only	24/09/14
EMR Darlaston assessment and Working Plan dated May 2014	All parts applicable to AR1 and AR2 only	09/06/14
Application EPR/GP3292FT/V009	Response to Section 3a, Part C3 Application Form – Technical Standards	Duly made 01/08/2023
Additional information received in response to the Schedule 5 Notice dated 20/09/2023	Document 'Response to Schedule 5 Notice', dated October 2023 <ul style="list-style-type: none"> ▪ Response to question 8d detailing arrangements to prevent damage of WTEE. ▪ Response to question 12 on water, energy and raw material consumption. ▪ Response to question 17 on leak detection and repair. ▪ Response to question 18a on storage locations of damaged WTEE units. ▪ Response to question 22 on refrigerant removal. 	25/10/2023
Additional information received in response to the Schedule 5 Notice dated 08/12/2023	Document 'Response to Schedule 5 Notice', dated January 2024 <ul style="list-style-type: none"> ▪ Response to question 7 detailing degassed oil storage. ▪ Response to question 12 on blowing agent recovery. ▪ Response to question 22 on the fire detection system for external bays and storage. 	12/01/2024
Additional information received in response to the Schedule 5 Notice dated 26/04/2024	Document 'Response to Schedule 5 Notice', dated May 2024 <ul style="list-style-type: none"> ▪ Response to question 10 detailing the management of firewater. 	20/05/2024

Table S1.2 Operating techniques		
Description	Parts	Date Received
Environmental Management Plan	Approved Environmental Management Plan dated May 2024	20/05/2024
Fire Prevention Plan	Approved Fire Prevention Plan issue 1 version 4 dated 01/05/2024	20/05/2024
Dust Management Plan	Approved Emissions Management Plan Ref: FP/NFE DEMP Version 2 dated October 2023	25/10/2023

Table S1.3 Substances, preparations and components to be removed during treatment from WEEE
<ul style="list-style-type: none"> • Capacitors containing polychlorinated biphenyls in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) • Mercury-containing components, such as switches or backlighting lamps • Batteries • Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres • Toner cartridges, liquid and paste, as well as colour toner • Plastic containing brominated flame retardants • Asbestos waste and components which contain asbestos • Cathode ray tubes • Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC), or hydrocarbons (HC) • Gas discharge lamps • Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps • External electric cables • Components containing refractory ceramic fibres as described in REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. • Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation • Electrolyte capacitors containing “substances of concern” (height > 25mm, diameter > 25mm or proportionately similar volume)

Table S1.4 Specified treatment methods and standards for the treatment of WEEE and components of WEEE	
Stage 1) Pre-destruction treatment (degassing) of WTEE	Refrigerants and oils must be properly extracted and treated. Ozone depleting gases must be treated in accordance with Regulation (EC) No 1005/2009.

Table S1.4 Specified treatment methods and standards for the treatment of WEEE and components of WEEE

	<p>Degassing of the refrigeration cooling system must be undertaken in a manner that results in the removal of at least 99% of the refrigerant and the oil from the cooling circuit.</p> <p>The degassing of WTEE must be undertaken in a way that prevents fugitive losses of refrigerant and achieves the following refrigerant recovery rate:</p> <ul style="list-style-type: none"> • 90% or more, based upon a mass balance calculation, as set out in Waste temperature exchange equipment: appropriate measures for permitted facilities <p>The oil removed from the cooling circuit must be treated to ensure that the concentration of refrigerant in the oil is <0.9% w/w unless it is transferred immediately to a suitable sealed container to prevent fugitive emissions and sent for further refrigerant recovery or destruction.</p>
<p>Stage 2) WTEE and insulation panel destruction</p>	<p>VFC and VHC blowing agents must be properly extracted and treated. Ozone depleting gases must be treated in accordance with Regulation (EC) No 1005/2009.</p> <p>WTEE must not be subject to the destruction process unless treated to the appropriate Stage 1 pre-destruction standards specified above.</p> <p>The destruction of WTEE and insulation panels must be undertaken in a contained environment that prevents fugitive losses of blowing agent and achieves the following blowing agent removal and recovery rates:</p> <ul style="list-style-type: none"> • 90% or more, based upon an annual assessment of a representative sample of the WTEE treated ^{Note 1} • 80% or more, based upon a monthly assessment of the WTEE treated that period ^{Note 1} <p>Residual materials resulting from the destruction of WTEE and insulation panels must meet the specified standards below:</p> <ul style="list-style-type: none"> • Metal – The quantity of foam remaining in the granulated ferrous and non-ferrous metal fractions after treatment shall not exceed 0.5% w/w • Plastic – The quantity of foam remaining in the granulated plastic fraction after treatment shall not exceed 1% w/w • Foam – The quantity of residual blowing agent remaining in the polyurethane foam after treatment shall not exceed 0.2% w/w <p>^{Note 1} As set out in Waste temperature exchange equipment: appropriate measures for permitted facilities</p>

Table S1.5 Improvement programme requirements

Reference	Requirement	Date
IP5	<p>The operator shall submit a written monitoring plan to the Environment Agency for approval.</p> <p>The plan must contain proposals for a comprehensive monitoring exercise to demonstrate that the stage 1 and stage 2 processing of refrigeration units and insulation panels does not give rise to fugitive</p>	6 months from permit issue

Table S1.5 Improvement programme requirements		
	<p>releases to air of refrigerant or blowing agent gases (i.e. CFCs, HCFCs, HFCs or HCs).</p> <p>The operator shall carry out the monitoring exercise and submit a report in accordance with the Environment Agency's written approval.</p> <p>The operator will give the Environment Agency at least fourteen days' notice of the commencement of the monitoring exercise.</p> <p>The Environment Agency will be notified immediately if any fugitive releases are detected during the monitoring exercise.</p>	
IC7	<p>The Operator shall submit to the Environment Agency for approval, a written plant decommissioning plan for the of the existing fridge destruction unit (AR1 and AR2 of Table S1.1). The decommissioning plan must include a timetable for completion of decommissioning within 6 months of the issue of this permit and demonstrate it will meet the requirements set out in Section 2.6 Plant decommissioning requirements of technical guidance Waste electrical and electronic equipment (WEEE): appropriate measures for permitting facilities, dated 13 July 2022.</p>	Issue date + 3 months
IC8 Updated emissions inventory and H1 (air and water)	<p>The operator shall submit a written report to the Environment Agency for approval that proposes a monitoring programme to characterise and assess the facility's point source emissions to air in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Waste electrical and electronic equipment: appropriate measures for permitted facilities, dated 13 July 2022.</p> <p>The report shall detail the parameters and substances that will be tested for, the monitoring methods and equipment that will be used, and a timetable for undertaking the monitoring. Monitoring of emissions to air from emissions point(s) A2 shall include speciated VOCs. The monitoring programme shall be carried out as approved by the Environment Agency.</p> <p>A written report shall submitted to the Environment Agency for approval detailing the results and conclusions of the emissions monitoring and assessment undertaken, including a completed H1 Environmental Risk Assessment and proposals for any ongoing monitoring or further assessment.</p>	<p>Submission of written report proposing monitoring programme</p> <p>Issue date + 2 months.</p> <p>Submission of subsequent written report detailing monitoring and assessment results</p> <p>Issue date + 6 months.</p>
IC9 Monitoring of thermal oxidiser (WTEE treatment)	<p>The operator shall submit a written report to the Environment Agency for approval detailing the monitoring measures in place for optimising and maintaining the operation and performance of the thermal oxidiser, including the monitoring of its emissions to air for relevant substances. This shall include details of the monitoring parameters, equipment, methods and frequency.</p>	Issue date + 2 months.

Table S1.6 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
1	Operation of new WTEE treatment plant	The Operator shall submit a validation report to the Environment Agency for approval. The validation report shall confirm and demonstrate that the plant has been successfully commissioned and satisfies the requirements of Section 2.1 Plant commissioning requirements of technical guidance Waste temperature exchange equipment: appropriate measures for permitting facilities, dated 13 July 2022.
2	Operation of new WTEE treatment plant	The Operator shall submit to the Environment Agency for approval proposals and a method for the ongoing monitoring and reporting of blowing agent recovery and destruction (as required in Table S3.3).

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Table S2.2 Permitted Waste types and quantities for Metal Recycling	
Maximum Quantities	
The total quantity of waste accepted at the site shall be less than 75,000 tonnes a year.	
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres Wastes that are in a form which is either sludge or liquid
Waste Code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	waste metal
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and waste from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 06	end-of-life vehicles containing neither liquids nor other hazardous components
16 01 17	ferrous metal
16 01 18	non-ferrous metal
16 01 21*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
16 01 22	components not otherwise specified

16 02	discarded equipment and its components
16 02 15*	hazardous components removed from discarded equipment
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 03*	mercury-containing batteries
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 10*	cables containing oil, coal tar and other hazardous substances
17 04 11	cables other than those mentioned in 17 04 10
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 02	ferrous materials removed from bottom ash
19 10	wastes from shredding of metal-containing wastes
19 10 01	iron and steel waste
19 10 02	non-ferrous wastes
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal
19 12 03	non-ferrous metal
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)

20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 40	metals

Table S2.3 Permitted Waste types and quantities for WTEE treatment facility	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: Consisting solely or mainly of dusts, powders or loose fibres
Waste Code	Description
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 02	wastes from electrical and electronic equipment
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
17	17 CONSTRUCTION AND DEMOLITION WASTES
17 06	Insulation materials and asbestos-containing construction materials
17 06 03*	other insulation materials consisting of hazardous substances - foam insulation panel containing CFC, HCFC, HFC
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03 - foam insulation panel containing CFC, HCFC, HFC
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Green Plant Emission Point and Blue Plant Emission Point	Extraction System	Total Suspended particulates	10 mg/m ³ or other level agreed in writing with the Environment Agency	Hourly average	Quarterly or other frequency agreed in writing with the Environment Agency	In accordance with BS EN 13284-1 or as agreed in writing with the Environment Agency.
	Stage 2 process treating refrigeration units	CFCs	Mass loss limit, set on a pro-rata basis, based upon a mass limit of 5g per 100 units processed per hour ¹	Hourly average	Quarterly or other frequency agreed in writing with the Environment Agency	BS EN 13649
	Stage 2 process treating refrigeration units	Other volatile organic compounds (including HCFCs, HFCs and HCs)	-	Hourly average	Quarterly or other frequency agreed in writing with the Environment Agency	
A2 Emissions control system exhaust (New Fridge Destruction Plant)	Air extraction and abatement system of Stage 2 WTEE treatment plant	Dust	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 13284-1
A2 Emissions control system exhaust (New Fridge Destruction Plant)	Air extraction and abatement system of Stage 2 WTEE treatment plant	CFCs	10 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	Following CEN/TS 13649
A2 Emissions control	Air extraction and	Total VOCs (concentration)	15 mg/m ³	Average value of 3 consecutive	6 monthly	EN 12619

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
system exhaust (New Fridge Destruction Plant)	abatement system of Stage 2 WTEE treatment plant			measurements of at least 30 minutes		
A2 Emission control system exhaust (New Fridge Destruction Plant)	Air extraction and abatement system of Stage 2 WTEE treatment plant	Total VOCs (mass emission)	Mass loss limit, set on a pro-rata basis, based upon a mass limit of 5g per 100 units treated per hour	Average value of 3 consecutive measurements of at least 30 minutes	Monthly for first 6 months then quarterly with written agreement from the Environment Agency	EN 12619
A2 Emission control system exhaust (New Fridge Destruction Plant)	Air extraction and abatement system of Stage 2 WTEE treatment plant	Air flow	-	Average value of 3 consecutive measurements of at least 30 minutes?	Monthly for first 6 months then quarterly with written agreement from the Environment Agency	EN 16911-1
A2 Emission control system exhaust (New Fridge Destruction Plant)	Air extraction and abatement system of Stage 2 WTEE treatment plant	Brominated flame retardants	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	BS EN 1948
A2 Emission control system exhaust (New Fridge Destruction Plant)	Stage 2 WTEE treatment plant air extraction and abatement system	Dioxin-like polychlorinated biphenyls (PCBs)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 1948-1, 2, 4.
A2 Emission control system exhaust (New Fridge Destruction Plant)	Stage 2 WTEE treatment plant air extraction and abatement system	Metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 14385
A2 Emission control system exhaust	Air extraction and abatement system of	Dioxins and furans (PCDD/F)	-	Average value of 3 consecutive measurement	Annually ^{Note 1}	EN 1948-1, 2, 3

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
(New Fridge Destruction Plant)	Stage 2 WTEE treatment plant			s of at least 30 minutes		
A2 Emission control system exhaust (New Fridge Destruction Plant)	Destruction of blowing agent gases from stage 2 WTEE treatment in regenerative thermal oxidiser (RTO)	Oxides of nitrogen	130 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 14792
		Carbon monoxide	-	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 15058

Note 1: An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC8.

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Emission to Walsall Canal at Surface Water Discharge Point as shown on drawing DAIED10052 024	Uncontaminated site source water from roofs and non-operational areas via an oil interceptor	Oil or grease	None visible	--	Weekly	Visual assessment

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
WTEE Stage 1 degassing WTEE degassed	WTEE unit type	Daily	Record of each unit degassed	Type 1 - 4
	Refrigerant type			VHC, VFC or other (e.g. ammonia)
	Number of defective			-
WTEE Stage 1 degassing	Quantity of refrigerant	Monthly	Weighed using calibrated scales	-

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Quantity of refrigerant recovered	collected over reporting period		of appropriate precision	
WTEE Stage 1 degassing Compressor oil	Concentration of refrigerant in the oil (% w/w)	Quarterly	Independent conformance testing in accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Assessment must be undertaken using a representative composite sample, consisting of at least 3 individual samples. Sample analysis must be carried out by an appropriately accredited independent laboratory (for example, UKAS accredited) and using recognised accredited methods if they are available.
WTEE Stage 1 degassing Refrigerant recovery rate	Refrigerant recovery, based upon mass balance calculation	6 monthly	In accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Based upon a representative sample of WTEE treated
WTEE Stage 2 destruction WTEE treated	WTEE unit type Blowing agent type	Daily	Record of number of units treated by type and blowing agent	Type 1 - 4 VHC, VFC or other (e.g. carbon dioxide)
WTEE Stage 2 destruction Insulation panel treated	Mass (kg)	Daily	Record of panel treated by weight and blowing agent type	VHC, VFC or other (e.g. carbon dioxide)
WTEE Stage 2 destruction Contained environment	Lower Explosive Limit (LEL) or Limiting Oxygen Concentration (LOC)	Continuous	-	-

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
WTEE Stage 2 destruction Residual materials conformance testing	Quantity of foam remaining on the granulated metal after treatment (%w/w)	Quarterly	Independent conformance testing in accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities	Assessment must be undertaken using a representative composite sample, consisting of at least 3 individual samples. Sample analysis must be carried out by an appropriately accredited independent laboratory (for example, UKAS accredited) and using recognised accredited methods if they are available.
	Quantity of foam remaining on the granulated plastic after treatment (%w/w)	Quarterly		
	Quantity of residual blowing agents remaining in the foam after treatment (%w/w)	Quarterly		
WTEE Stage 2 destruction Quantity of blowing agent recovered	Quantity of blowing agent collected over reporting period	Monthly	Method to be agreed with the Environment Agency	-
WTEE Stage 2 destruction Blowing agent recovery rate	Blowing agent recovered as a percentage of the theoretical content of the waste treated	Monthly	Calculated in accordance with Section 6 (process monitoring) of Waste temperature exchange equipment: appropriate measures for permitted facilities or other method agreed with the Environment Agency	Monthly assessment based upon the waste treated during that period
		Annual		Annual assessment based upon a representative sample of WTEE treated
WTEE Record of residual wastes removed from site	As set in Form Appendix A: Quantities of residual materials from pre-destruction and destruction treatment	Quarterly	-	-

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Thermal oxidiser serving WTEE treatment plant	Destruction of blowing agent gases from stage 2 WTEE treatment in regenerative thermal oxidiser (RTO)	To be agreed following completion of IC9	To be agreed following completion of IC9	99.99% destruction efficiency of VOCs (including VHCs and VFCs) must be maintained at all times

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to Air Parameters as required by condition 3.5.1	As agreed in writing by the Environment Agency.	Every 6 months, or as agreed in writing by the Environment Agency.	1 January
Emissions to water Parameters as required by condition 3.5.1	W1	Every 6 months, or as agreed in writing by the Environment Agency.	1 January, 1 July
Process monitoring Parameters as required by condition 3.5.1	As agreed in writing by the Environment Agency.	Quarterly, or as agreed in writing by the Environment Agency.	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Metal treated	tonnes
Ferrous metal recovered	tonnes
Non-ferrous metal recovered	tonnes
Non-metallic shredder residue	tonnes

Table S4.2 Annual production/treatment	
Parameter	Units
WTEE treated	tonnes
Ferrous metal recovered	tonnes
Non-ferrous metal recovered	tonnes
Other fractions recovered	tonnes
Non-metallic shredder residue	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Total raw material used	Annually	tonne

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Ambient air monitoring	Form ambient monitoring 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
WTEE process monitoring - Quantities of residual wastes removed from site	Quantities of residual materials from pre-destruction and destruction process form (Appendix A Excel Form) or other form as agreed in writing by the Environment Agency	DD/MM/YY
WTEE process monitoring - Summary of WTEE and insulation panels treated - Quantities of refrigerant and blowing agent recovered - Assessment of refrigerant and blowing agent recovery rate	Degassing and destruction process efficiency reporting form (Appendix B Excel Form) or other form as agreed in writing by the Environment Agency	DD/MM/YY
WTEE process monitoring - Conformance testing of residual materials	Residual materials conformance testing reporting form (Appendix C Excel Form) or other form as agreed in writing by the Environment Agency	DD/MM/YY
Waste returns	E-waste returns	--

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“baling” means baling that utilises a hydraulic machine that using compressive forces compacts various materials into regular-shaped dense bales (typically a cube). Bales may be belted with straps or steel wire to keep the bale in its compacted state; although for most metal bales this is not necessary. Baled scrap metal may be easier to handle, store and transport than loose scrap.

“best available treatment, recovery and recycling techniques” shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled ‘Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRR) and Treatment of Waste Electrical and Electronic Equipment (WEEE)’.

“Blowing agent” Blowing agent used in the foam formation process and contained in the insulating foam of a WTEE unit, or other relevant electrical appliance, or insulation panel. Blowing agents are used in the foam formation process and include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs) and hydrocarbons (HCs).

“compacting” means compacting involving the flattening or crushing of compactable metal wastes to aid storage and economic transportation to the scrap processor; it is often a preparation for shredding. Compacting may be achieved using a waste handler’s loading shovel (known as “tapping”) or specially-designed hydraulic flattener.

“Contained environment” Means an environment where there is atmospheric containment. This includes areas where air egress may only be facilitated through air extraction and blowing agent capture systems

“controlled substances” means chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons and hydrochlorofluorocarbons listed in Annex I of Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer, including their isomers, whether alone or in a mixture, and whether they are virgin, recovered, recycled or reclaimed.

“cutting” means cutting typically utilising either an oxy-acetylene gas cutting torch or abrasive disc cutter to cut and/or resize large pieces of scrap metal into more manageable sizes; powder torches and plasma torches may be used to cut heat-resistant scrap e.g. pig iron, copper, bronze).

“Defective unit” means a WTEE unit that does not have any gas pressure in the cooling circuit.

“disposal” means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“dust” means total particulate matter (in air).

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“grading” means the sorting of metals to industry-agreed specifications ready for use, without the need for further treatment, by the end consumer to manufacture new metals.

“granulating” means granulated to a very small size with metal/non-metal separation by air classification and flotation.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Independent conformance testing” means independent sampling and testing of residual materials and emission points to confirm whether or not the standards set in the permit for fridge destruction are being fulfilled, carried out by an external laboratory and using accredited methods where they are available.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016

“Insulation panel” means rigid polyurethane foam insulation boards, typically removed from the internal and external walls, roofs and ceilings of buildings, cold stores or commercial or domestic cooling equipment, which contain CFC, HCFC, HFC or HC blowing agents.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“Lower Explosive Limit” means the lowest concentration (specified as a percentage) of a combustible gas in air capable of burning in the presence of an ignition source.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“ozone-depleting substances” “ODS” means “controlled substances” contained in refrigeration, air-conditioning and heat pump equipment (WTEE); equipment containing solvents; fire protection systems and fire extinguishers.

“pests” means Birds, Vermin and Insects.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Reference 1” means the International Atomic Energy Agency recommendations in Annex IV of ‘Recommendations on Monitoring and Response Procedures for Radioactive Scrap Metal’, UNECE, 2006.

“Refrigerant” means refrigerant gas contained in the compressor and cooling circuit of the WTEE unit. Refrigerants include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), hydrocarbons (HCs) and ammonia.

“WTEE unit type” are four identified types of refrigeration unit, as set out in the table below:

Type 1	Refrigerators with storage capacity less than 0.18m ³
Type 2	Refrigerators or combined fridge-freezers with storage capacity between 0.18m ³ & 0.35m ³

Type 3	Freezers with storage capacity less than 0.50m ³ and combined fridge-freezers with capacity greater than 0.35m ³ and no more than 0.5m ³
Type 4	any refrigerators, freezers or fridge-freezers with a capacity greater than 0.5m ³

“Residual materials” means both materials and wastes resulting from the specified operations.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged.

“separation” means separating wastes into different material types, components and grades.

“shearing” means utilises a range of hydraulic machinery that comprise hard steel blades which cut metals into manageable sizes. It may be hand-held, static or attached to mobile plant (e.g. cranes).

“sorting” means sorting that may be undertaken by hand or machinery. Sorting enables materials to be processed and recycled appropriately. It may involve separation of different waste types or the separation of different metal types including different ferrous metals, non-ferrous metals and non-metallic materials (e.g. paper and plastic). The sorted metals are graded by visual inspection, supplemented by chemical and other laboratory tests. The physical sorting may be assisted by conveyors and electromagnets.

“shredding” includes treatment in plant such as hammer mills, chain mills, rotary shears and other similar equipment that is designed to fragment metal into smaller pieces to allow the separation of the metallic and the non metallic fractions. It does not include shearers and guillotines which utilise a range of hydraulic machinery that comprise hard steel blades to cut metals into manageable sizes.’

“VHC” means volatile hydrocarbon.

“VFC” means volatile (hydro)fluorocarbon, including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs).

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“waste motor vehicle” means a wheeled vehicle for use on land and that does not operate on rails that is waste within the meaning of Article 3(1) of the Waste framework Directive.

“WEEE” means waste electrical and electronic equipment.

“WEEE Directive” means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

“WTEE” means waste temperature exchange equipment, as defined in guidance Waste temperature exchange equipment: appropriate measures.

“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Where the following terms appear in the waste code list in Table[s] S[X.X] they have the meaning given below.

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“heavy metal” means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

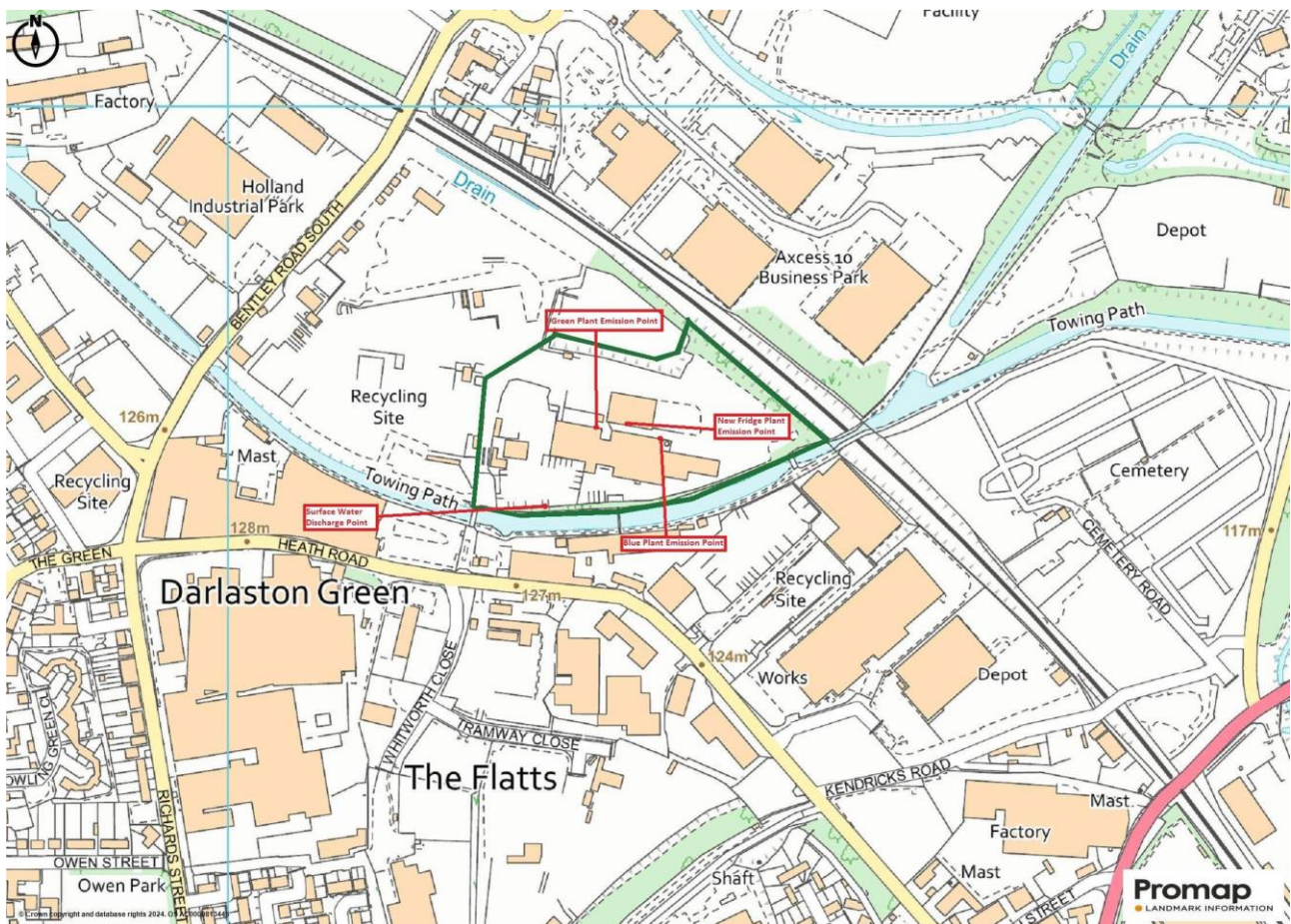
“polychlorinated biphenyls and polychlorinated terphenyls” (“PCBs”) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

Article 2(a) says that ‘PCBs’ means:

- polychlorinated biphenyls;
- polychlorinated terphenyls;
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane; and
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight.

“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances.

Schedule 7 – Site plan



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END OF PERMIT

Permit Number: AB1234CD **Operator:** [Operator name]
Facility: [Facility name] **Form Number:** Air1 / DD/MM/YY

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Operator)

Permit Number: AB1234CD **Operator:** [Operator name]
Facility: [Facility name] **Form Number:** Water1 / DD/MM/YY

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed Date.....

(Authorised to sign as representative of Operator)

Permit Number: AB1234CD

Operator: [Operator name]

Facility: [Facility name]

Form Number: WaterUsage1 / DD/MM/YY

Reporting of Water Usage for the year

Water Source	Usage (m³/year)	Specific Usage (m³/unit output)
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments:

Signed

Date.....

(authorised to sign as representative of Operator)

Permit Number: AB1234CD

Operator: [Operator name]

Facility: [Facility name]

Form Number: Energy1 / DD/MM/YY

Reporting of Energy Usage for the year

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
Biogas	tonnes		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number: AB1234CD

Operator: [Operator name]

Facility: [Facility name]

Form Number: Performance1 / DD/MM/YY

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units
Total raw material used	tonnes

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)