

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

European Metal Recycling Limited

Willesden Depot
106 Scrubs Lane
Willesden
London
NW10 6QY

Variation application number

EPR/FB3205MK/V004

Permit number

EPR/FB3205MK

Willesden Depot

Permit number EPR/FB3205MK

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.

This permit 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) and “Treating metal waste in shredders: appropriate measures for permitted facilities”.

Changes introduced by this variation notice/statutory review

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 Treating metal waste in shredders: appropriate measures for permitted facilities guidance was published on gov.uk on 20 October 2021. 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 has been issued to update some of the conditions following a statutory review of the permits in the WEEE treatment and transfer and metal shredding sector 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:

European Metal Recycling Limited (EMR), operates a metal recycling facility at Scrubs Lane, Willesden. The Site has been a scrap metal processing, recycling and transfer facility since the early 1960's. Prior to this, much of the Site was part of large railway sidings and associated buildings such as engineering workshops. The maximum amount of waste the entire Site is regulated to accept is 419,000 tonnes per year.

The operations on Site include the following Schedule 1 Activities:

- Section 5.4 Part A(1)(b)(iv) A metal shredder (with process capacity of more than 75 tonnes per day)
- Section 5.3 Part A(1)(a)(ii) A fridge destruction plant (with a hazardous waste treatment capacity of more than 10 tonnes per day)
- Section 5.6 Part A(1)(a)(i) Storage of more than 50 tonnes of hazardous waste.

In addition to the installation activity, EMR are also permitted to undertake the following waste operations:

- Vehicles storage, depollution and dismantling (authorised treatment)
- Waste electrical and electronic equipment (authorised treatment)
- Metal recycling

The facility is located within the London Borough of Hammersmith and Fulham - an air quality management area for emissions of PM10 and NO2. The Permit includes monitoring requirements for PM10. The Willesden Depot is managed in accordance with a customised in-house environmental management system. An Improvement Condition has been introduced as part of this variation requiring the operator to provide a Dust & Emissions management plan as the operator is relying upon alternative measure for relevant points of Treating Metal Waste in Shredders: appropriate measure for permitted facilities, as well as the site being located with the Hammersmith and Fulham Air Quality Management Area for PM10s and NO₂.

Metal Shredder:

The metal shredder (or fragmentiser plant) consists of an infeed conveyer or chute which is loaded with the feed materials, a hammer mill which shreds and fragments the materials and various separation stages such as air suction, cyclonic cleaning and magnetic separation.

Within the shredder, water is injected into the chamber reducing the possibility of fire or rapid combustion and suppressing the potential for dust generation. Following the cyclonic separation stage, air is directed to atmosphere at release point A1 via a grid to remove paper, plastic film etc.

The shredder at Willesden Depot is capable of processing 150 – 200 tonnes of material per hour with a maximum of approximately 2,000 tonnes per day.

Separated fractions of waste that have been through the metal shredder are stored around the site in bays.

Ambient air monitoring is also carried out at locations agreed with the Environment Agency to ensure minimal impact on sensitive environmental or human receptors.

Fridge Destruction Plant:

This involves a two-stage process:

- Stage 1 (degassing)
Removal of refrigerant and oil.
- Stage 2 (shredding)

Within the Stage 2 process the degassed fridge units are introduced into a shredding chamber which is sealed and filled with nitrogen gas. Ozone depleting substances (ODS) are removed from the nitrogen gas by cryocondensation and the nitrogen gas further passed through activated carbon filters to remove any residual ODS gases before venting to atmosphere through release point, A2, with monitoring requirements set for particulates, CFC's and other volatile organic compounds. An improvement condition (IC17) has been set to determine whether the monitoring will be carried out through emissions monitoring or process monitoring.

The maximum processing capacity of the fridge destruction plant is 70 units per hour and approximately 1400 units per day.

Hazardous Waste Storage Area:

This area allows the storage of fridges, hazardous components from the fridge destruction process (including compressor oil, refrigerant and blowing agents, mercury switches) and hazardous components from the ELV depollution process (including waste oil, batteries, oil filters). This area is impermeably surfaced with sealed drainage.

All storage and treatment of scrap metal including the end-of-life vehicles and end of life refrigeration equipment are undertaken on impermeable surfaces.

All run-off from impermeable surfaces passes through silt traps and settlement areas prior to discharge to sewer via an interceptor. There is currently a trade effluent consent with the sewerage undertaker Thames Water Utilities Ltd which allows for a maximum discharge of 364,690m³ in any 24 hour period, with set limits for applicable substances.

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 issued EAWML 80371	11/03/1999	Permit issued to Mayer Parry Recycling Limited.
Modification	18/09/2002	Modification to allow end-of-life vehicle processing facility.
Modification	04/12/2003	Modification to remove financial provision bond requirement
Modification	07/11/2008	Modification following the introduction of WEEE regulations.
Modification	11/12/2009	Environment Agency initiated variation to amend the interpretation of "Where appropriate".
Permit issued EPR/YP3991NQ	10/06/2013	Environment Agency initiated variation. Varied and consolidated permit issued in modern condition format.
Variation application EPR/YP3991NQ/V007 (inclusion of newly prescribed activity)	Duly made 19/09/2014	Application to vary and update the permit to IED conditions. Variation application number changed to EPR/FB3205MK/V002 to reflect transfer of Permit EPR/YP3991NQ from Mayer Parry Recycling Limited to European Metal Recycling Limited.
Application EPR/FB3205MK/T001 (full transfer of permit EPR/YP3991NQ)	Duly Made 02/05/2017	Application to transfer the permit in full to European Metal Recycling Limited.
Transfer determined EPR/FB3205MK	24/05/2017	Full transfer of permit complete
Variation issued EPR/FB3205MK/V002 (Billing ref. WP3632WD/EAWML 80371)	31/08/2017	Varied and consolidated permit issued in modern condition format.
Variation application EPR/FB3205MK/V003	Duly made 25/04/2019	Application to add two EWC codes to permit
Variation issued EPR/FB3205MK/V003	16/05/2019	Varied and consolidated permit issued in modern condition format.
Regulation 61 Notice sent to Operator	21/04/2022	Regulation 61 Notice requiring information for statutory review of permit in relation to the Treating metal waste in shredders: appropriate

Status log of the permit		
Description	Date	Comments
		measures for permitted facilities published 20 October 2021.
Regulation 61 Notice sent to Operator	21/04/2022	Regulation 61 Notice requiring information for statutory review of permit in relation to the Waste Electrical and electronic equipment (WEEE): appropriate measures for permitted facilities published 13 July 2022.
Regulation 61 Notice response	30/08/2022	Response received from the operator in relation to the Treating metal waste in shredders: appropriate measures for permitted facilities published 20 October 2021.
Regulation 61 Notice response	30/08/2022	Response received from the operator in relation to the Waste Electrical and electronic equipment (WEEE): appropriate measures for permitted facilities published 13 July 2022.
Application (variation and consolidation) EPR/FB3205MK/V004	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 and Treating metal waste in shredders: appropriate measures for permitted facilities published 20 October 2021.
Request For Information	08/12/2023	Additional information requested following Regulation 61 response: for: <ul style="list-style-type: none"> • Details of hazardous waste types and waste classification • Completion of relevant appropriate measures and alternative measures • Confirmation of replacement of Stage 1 de-gassing equipment • Waste exemptions • Clarification for storage and limits of waste
Request For Information	25/01/2024	Additional information requested following Regulation 61 response: <ul style="list-style-type: none"> • Justification for alternative measures • Maximum storage volumes • Details of emission limits
Request For Information	22/02/2024	Additional information requested following Regulation 61 response: <ul style="list-style-type: none"> • Site Drainage Plan • Accident Management Plan • Details for coverage of hazardous waste • Wastewater / surface water strategy plan
Request For Information	26/03/2024	Additional information requested following Regulation 61 response: <ul style="list-style-type: none"> • Clarification on waste codes • Clarification on waste operations

Status log of the permit		
Description	Date	Comments
Environment Agency Waste Treatment Sector Review Permit reviewed Variation determined EPR/FB3205MK/V004	17/12/2024	Varied and consolidated permit issued.

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/FB3205MK

Issued to

European Metal Recycling Limited (“the operator”)

whose registered office is

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

company registration number **02954623**

to operate regulated facilities at

**Willesden Depot
106 Scrubs Lane
Willesden
London
NW10 6QY**

to the extent set out in the schedules.

The notice shall take effect from 17/12/2024

Name	Date
Anne Lloyd	17/12/2024

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.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/FB3205MK

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FB3205MK/V004 authorising,

European Metal Recycling Limited (“the operator”),

whose registered office is

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

company registration number **02954623**

to operate an installation and waste operation at

**Willesden Depot
106 Scrubs Lane
Willesden
London
NW10 6QY**

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

Name	Date
Anne Lloyd	17/12/2024

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 AR8) 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 AR8) 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 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 S1.6, 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 S1.6, 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 tables S2.2, S2.3, S2.4, S2.5, S2.6, and S2.7; 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 activity referenced as AR2 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 Vehicle depollution and dismantling

2.5.1 As a minimum, all waste motor vehicles shall be treated to the standards specified in table S1.3.

2.6 WEEE treatment

2.6.1 As a minimum, the substances, preparations and components specified in table S1.4 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.

2.6.2 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 S1.5, unless it is being prepared for re-use or the operator has taken appropriate measures to ensure such treatment following transfer off site.

2.7 Waste battery and accumulator treatment

2.7.1 Treatment of batteries and accumulators shall, as a minimum, include removal of all fluids and acids.

2.8 Improvement programme

2.8.1 The operator shall complete the improvements specified in schedule 1 table S1.7 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.8.2 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.

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 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 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 Emissions from the metal shredder shall be free from sudden noise or vibration at levels likely to cause pollution outside the site, 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 sudden noise and vibration.

3.4.3 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) ambient air monitoring specified in table S3.3;
 - (c) process monitoring specified in table S3.4;
- 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 Monitoring for radioactive substances

- 3.6.1 The operator shall carry out monitoring of all waste delivered to the site to determine, so far as reasonably practicable, whether it contains any radioactive substances.
- 3.6.2 Monitoring equipment shall be installed and operational 3 months from the issue of this permit.
- 3.6.3 The monitoring carried out to fulfil condition 3.6.1 shall include, as a minimum, use of:
- (a) fixed radiation detectors at all weighbridges at the site; and
 - (b) a hand held detector to investigate alarms generated by the equipment in (a) above.
- 3.6.4 The equipment referred to in condition 3.6.3 (a) shall:
- (a) include solid state scintillation detectors;
 - (b) be positioned as close as reasonably practicable to the waste being monitored;
 - (c) have a sensitivity to gamma radiation consistent with the minimum performance as specified in the International Atomic Energy Agency recommendations in Annex IV of 'Recommendations on Monitoring and Response Procedures for Radioactive Scrap Metal', UNECE, 2006;
 - (d) include visual and audible alarms which activate on detection of radiation above a defined action level.
- 3.6.5 All radiation monitoring equipment shall be subject to a regular calibration and testing programme to ensure satisfactory performance is maintained.
- 3.6.6 The operator shall establish and maintain procedures for responding to alarms generated by the equipment referred to in condition 3.6.3.
- 3.6.7 The operator shall, without delay, inform the Environment Agency of each confirmed detection of radiation in accordance with this condition and the action taken in accordance with condition 4.3.1.

3.7 Pests

- 3.7.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests

management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.7.2 The operator shall:

- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.8 Fire prevention

3.8.1 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 reports 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	S5.4 A(1) (b) (iv) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.	Shredding of non-hazardous metal waste, WEEE and end-of-life vehicles. 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 of waste by shredding to storage of treated waste. Treatment consisting only of shredding and granulation of waste containing ferrous and non-ferrous metals for recovery, including WEEE and depolluted ELV's into different components for recovery. There shall be no treatment of gas bottles or other pressurised containers. Waste types suitable for acceptance are limited to those non-hazardous waste types specified in Table S2.2. Treated waste (ferrous metal, non-ferrous metal, WEEE, and ELV) shall be stored prior to transfer off-site for no longer than 3 months. No more than 2,000 tonnes of waste shall be shredded per day.
AR2	S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	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 R5: Recycling/reclamation of other inorganic materials	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"> • degassing of equipment, with collection of oil and refrigerant gas • 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 using cryogenic condensation and carbon filters. Treatment of refrigeration units shall be carried out within a building provided with weatherproof covering. Storage of processed wastes and materials including separated ferrous, non-ferrous metals, polyurethane foam, oil refrigerants, plastics, and

			<p>other fractions following treatment. All treated wastes to be stored for no longer than 6 months.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p> <p>No more than 60 tonnes of waste shall be treated per day.</p>
AR3	<p>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</p>	<p>Storage of hazardous waste pending on-site treatment or off-site transfer</p> <p>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>	<p>From receipt and storage of hazardous waste on site to its treatment on site; or its transfer off-site.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.4.</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 3.6 metres.</p> <p>Storage capacity of WTEE shall not exceed 240 tonnes at any one time.</p> <p>WTEE units shall only be stored in the area marked "Fridge Overflow Storage" and "Fridge Storage Area" shown on Drawing number "DEWILLFRG-100-001SC dated 04/06/18 or as amended.</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>All other hazardous waste storage pending treatment shall not exceed 6 months, without prior written approval from the Environment Agency.</p> <p>Storage of all hazardous waste pending treatment or transfer shall not exceed 285 tonnes at any one time.</p>
Directly Associated Activities			

AR4	Physical treatment for the purpose of recycling	Manual and mechanical sorting, segregation and grading of non-hazardous 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. Pre-treatment consisting only of sorting, separation, grading, shearing, baling, compacting, crushing and cutting of metal wastes into different components for recovery. Post-treatment of metal wastes including cleaning and further separation. There shall be no treatment of gas bottles or other pressurised containers. Waste types suitable for acceptance are limited to those specified in Table S2.2 and S2.7.
AR5	Storage of non-hazardous waste pending treatment	Storage of non-hazardous waste pending manual and mechanical sorting, segregation and grading of non-hazardous fractions . 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 metal shredding. Storage for no more than 6 months prior to treatment or transfer. Waste types suitable for acceptance are limited to those specified in Table S2.2.
AR6	Storage of processed materials, excluding temporary storage of hazardous waste under Section 5.6 A(1)(a)	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From storage of processed materials to dispatch off site for recovery. Storage of recovered fractions and shredder residue following treatment.
AR7	Raw materials storage	Storage of raw materials including nitrogen, lubrication greases, hydraulic oils and diesel.	From the receipt of raw materials to despatch for use within the facility
AR8	Site drainage discharge	Discharge of site drainage from storage and treatment areas.	Collected surface water and run off from impermeable surfaces to pass through silt traps, settlement tanks and interceptor before discharge to foul sewer emission point as shown by Emission Point S1 on Site Plan in Schedule 7.
Waste Operations			
Activity reference	Description of activities for waste operations		Limits of activities
AR9	Vehicle storage, depollution and dismantling (authorised treatment) facility.		Treatment operations shall be limited to:

	<p>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> <p>R4: Recycling/ reclamation of metals and metal compounds</p> <p>R5: Recycling/ reclamation of other inorganic compounds</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)</p>	<ul style="list-style-type: none"> • Treatment consisting of depollution of waste motor vehicles and sorting, separation, grading, baling, shearing, compacting, crushing, dismantling or cutting of waste into different components for recovery of wastes. <p>No more than 50 tonnes of non-depolluted ELVs and 200 tonnes of all depolluted ELVs shall be stored at the site.</p> <p>No more than 25 tonnes of intact waste vehicle tyres (waste code 16 01 03) shall be stored at the site.</p> <p>Subject to any other requirements of this permit, wastes shall be stored for no longer than 6 months.</p> <p>Waste motor vehicles shall only be stored in the areas marked "ELV Parking Area" shown on drawing number "DEWILLFRG-100-001S dated 04/06/18 or as amended.</p> <p>Uncontaminated plastic, glass and ferrous and non-ferrous metal wastes (including depolluted waste motor vehicles) arising from the treatment of end-of-life vehicles shall be stored on hard standing or an impermeable surface with sealed drainage system.</p> <p>There shall be no treatment of lead acid batteries, other than sorting and separating from other wastes, and repackaging for third party processing.</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>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 S2.5.</p>
AR10	Waste electrical and electronic equipment authorised treatment facility	Treatment operations shall be limited to:

	<p>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> <p>R3: Recycling/ reclamation of organic substances which are not used as solvents</p> <p>R4: Recycling/ reclamation of metals and metal compounds</p> <p>R5: Recycling/ reclamation of other inorganic compounds</p>	<ul style="list-style-type: none"> • Treatment consisting of sorting, manual dismantling, separation, screening, baling, or cutting of waste into different components for recovery. <p>WEEE that is POPs waste must not be repaired or refurbished for re-use.</p> <p>Liquids must be removed prior to mechanical treatment.</p> <p>External batteries (including powerpacks) and internal batteries designed to be accessible by the user must be removed prior to mechanical treatment.</p> <p>There shall be no treatment of hazardous waste other than for sorting and separation from other waste streams, repair or refurbishment, or manual dismantling only.</p> <p>Treatment of WEEE shall be carried out within a building provided with a weatherproof covering where appropriate.</p> <p>Treatment of WEEE shall be carried out on an impermeable surface with sealed drainage with provision of spillage collection facilities and, where appropriate, decanters and cleanser degreasers.</p> <p>There shall be no treatment of batteries, other than sorting and separating from other wastes, and repackaging for third party processing.</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>Batteries shall be stored on site for no longer than 6 months.</p> <p>Subject to any other requirements of this permit, wastes shall be stored for no longer than 6 months.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.6.</p>
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<p>AR11</p>	<p>Metal Recycling</p> <p>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> <p>R4: Recycling/ reclamation of metals and metal compounds</p>	<p>Treatment operations shall be limited to:</p> <ul style="list-style-type: none"> • Treatment consisting only of sorting, separation, grading, shearing, bailing, compaction, crushing or cutting 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.</p> <p>Metal prior to being treated via the metal shredder shall only be stored in the areas marked "Fragmentiser Feed Material" and "Frag Feed" on drawing number "MB/C/Wils" dated Oct 2013 or as amended and in two distinct piles kept physically separate from each other.</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>Lead-acid 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>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 S2.7.</p>
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Table S1.2 Operating techniques		
Description	Parts	Date Received
Emission control system exhaust point as shown on drawing "Site Safety Plan" reference MB/C/Wilss May '12		14/11/12
Additional information supplied for IED Variation	All	27/11/14
Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities Version published 13 July 2022	<p>All parts of the appropriate measures guidance shall apply other than:</p> <ul style="list-style-type: none"> those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement; those parts listed below which are not applicable; <p>The following parts of the appropriate measures guidance are not applicable:</p> <ul style="list-style-type: none"> Waste storage, segregation and handling appropriate measures <ul style="list-style-type: none"> - Measure 4.2, point 1-18; Waste treatment appropriate measures; <ul style="list-style-type: none"> - Measure 5.5, point 1-14; - Measure 5.6, point 1-14; - Measure 5.7, point 1-14; - Measure 5.8, point 1-14; - Measure 5.9, point 1-14; - Measure 5.11, point 1-14; - Measure 5.12, point 5. 	--
Waste temperature exchange equipment: appropriate measures for permitted facilities Version published 13 July 2022	<p>All parts of the appropriate measures guidance shall apply other than:</p> <ul style="list-style-type: none"> those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement; 	--
Treating metal waste in shredders: appropriate measures for permitted facilities Version published 20 October 2021	<p>All parts of the appropriate measures guidance shall apply other than:</p> <ul style="list-style-type: none"> those parts to which an improvement programme requirement applies in Table S1.3 and until the agreed completion date for that improvement; those parts listed below which are not applicable; those parts for which an alternative measure has been agreed. 	--

Table S1.2 Operating techniques		
Description	Parts	Date Received
	<p>The following parts of the appropriate measures guidance are not applicable:</p> <ul style="list-style-type: none"> • Waste treatment appropriate measures - Measure 5.2, point 6; • Emissions control appropriate measures - Measure 6.2, point 22; - Measure 6.5, point 4. 	
Fire Prevention Plan	<p>Approved Fire Prevention Plan consisting of:</p> <ul style="list-style-type: none"> • Fire Prevention Plan issue 1-v2 (Ref: E04-03); • Appendix 1 SWP and EPP Index • Appendix 2 Willesden Site Plan (FPP) • Appendix 3 Flammable Substances • Appendix 4 EPP-5.1 Environmental Incidents – Fire Prevention and Response – Issue 1-v1 • Appendix 5 Emergency Grab Pack • Appendix 6 EMR CCTV out of hours fire procedure • Appendix 7 Daily pre-use checks – examples • Appendix 8 Fire hose and cannon monthly checksheets – examples • Appendix 9 Willesden Site Smoking Layout Plan • Appendix 10 Hot Work permit • Appendix 11 Sensitive Receptors Map • Appendix 12 Emergency Response Plan Aug 2017 	01/01/2018
Response to Regulation 61 Notice dated 21/04/2022	<ul style="list-style-type: none"> • Regulation 61 Notice response (WEEE) • Regulation 61 Notice response (Metal Shredding) • Site Plan Layout (Ref: DEWILLFRG-100_001S) 	29/08/2022
Site Drainage Plan	Site Drainage Plan titled "Willesden Drainage Plan Option A by Fridge plant dated 11/03/21	11/03/2024
Response to RFI email dated 10/10/2024	Deflagration Management Plan titled 'EMR Willesden Shredder – Deflagration Management Plan dated 15/10/2024	15/10/2024

Table S1.3 Waste motor vehicle treatment minimum technical requirements

1. Treatment operations for depollution of end-of-life vehicles:

- removal of batteries and liquefied gas tanks,
- removal or neutralisation of potential explosive components, (e.g. air bags), removal and separate collection and storage of fuel, motor oil, transmission oil, gearbox oil, hydraulic oil, cooling liquids, antifreeze, brake fluids, air-conditioning system fluids and any other fluid contained in the end-of-life vehicle, unless they are necessary for the re-use of the parts concerned,
- removal, as far as feasible, of all components identified as containing mercury.

2. Treatment operations in order to promote recycling:

- removal of catalysts,
- removal of metal components containing copper, aluminium and magnesium if these metals are not segregated in the shredding process,
- removal of tyres, glass and large plastic components (bumpers, dashboard, fluid containers, etc), if these materials are not segregated in the shredding process in such a way that they can be effectively recycled as materials.

Table S1.4 Substances, preparations and components to be removed during treatment from WEEE

- 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 S1.5 Specified treatment methods and standards for the treatment of WEEE and components of WEEE

<p>Stage 1) Pre-destruction treatment (degassing) of WTEE</p>	<p>Refrigerants and oils must be properly extracted and treated. Ozone depleting gases must be treated in accordance with Regulation (EC) No 1005/2009. 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 S1.6 Improvement programme requirements

Reference	Requirement	Date
<p>IC10 Updated emissions inventory and H1 (air and water)</p>	<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 and water (including sewer) in accordance with the Emissions monitoring and limits appropriate measures of technical guidance Waste electrical and electronic equipment: appropriate measures</p>	<p>Submission of written report proposing monitoring programme Issue date + 2 months.</p>

Table S1.6 Improvement programme requirements		
	<p>for permitted facilities, dated 13 July 2022 and Treating metal waste in shredders: appropriate measures for permitted facilities, dated 22 October 2021.</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. 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 subsequent written report detailing monitoring and assessment results</p> <p>Issue date + 6 months.</p>
<p>IC 11</p> <p>Dust & Emissions Management Plan</p>	<p>The operator shall submit to the Environment Agency a written Dust Emission Management Plan and obtain the Environment Agency's written approval to it. The plan should include but not be limited to the following:</p> <ul style="list-style-type: none"> • The DEMP version number and date • Introduction to the site and description of site operations • The identification of local sensitive receptors • Other local contributors of Dust and Emissions • Take into account the principle of the source- pathway- receptor model in the planning of the site, its operations and the use of abatement to minimise emissions • The identification of emissions sources on site • Describe how site activities will be planned and carried out to account and deal appropriately with different weather forecasts and conditions • Installation of site abatement systems- proportionate to the risk and appropriate in effectiveness • Description of site abatement systems, including the nomination of responsibility • The location and specifications of site PM10 monitoring, including location of monitor, management of data, servicing and calibration, and trigger action levels (if applicable) • Engagement with the local community and responding to complaint <p>The operator must implement the proposals in the plan as agreed with the Environment Agency's written approval.</p>	<p>Issue date + 2 months</p>

Table S1.6 Improvement programme requirements		
<p>IC 12</p> <p>Waste storage, segregation and handling procedures</p>	<p>The operator shall review and update their waste storage, segregation and handling procedures to ensure that they meet the requirements of the Environment Agency's guidance Treating metal waste in a shredder: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measure of the guidance will be met:</p> <ul style="list-style-type: none"> • Measure 4.4, point 4 which states that lead acid batteries must be stored upright with terminals taped off or capped in acid proof containers to prevent leaks and short circuits, or; • Provision of a suitable alternative measure <p>A copy of the updated procedure shall be submitted to the Environment Agency for approval.</p>	<p>Issue date + 2 months</p>
<p>IC 13</p> <p>Stage 1 de-gassing process</p>	<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 processing of refrigeration units and insulation panels does not give rise to fugitive 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>	<p>Issue date + 2 months</p>
<p>IC 14</p> <p>Fire Prevention Plan</p>	<p>The operator shall review and resubmit an updated written plan to the Environment Agency for assessment and written approval. The plan shall take into account all appropriate measures for fire prevention specified in the Environment Agency's guidance:</p> <ul style="list-style-type: none"> • End of Life Vehicles (ELVs): appropriate measures for permitted facilities • Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities • Treating metal waste in shredders: appropriate measures for permitted facilities 	<p>Issue date + 1 months</p>

Table S1.6 Improvement programme requirements		
	<ul style="list-style-type: none"> Waste temperature exchange equipment: appropriate measures for permitted facilities Fire prevention plans: environmental permits <p>Once the fire prevention plan has been agreed with the Environment Agency, this installation must be operated in accordance with this management plan.</p>	
<p>IC 15</p> <p>Waste treatment procedures</p>	<p>The operator shall review and update their waste treatment procedures to ensure that they meet the requirements of the Environment Agency's guidance Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities and Treating metal waste in shredders: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measure of the guidance will be met:</p> <p>Measure 5.2, point 5 of the Waste electrical and electronic equipment (WEEE): appropriate measures for permitted and facilities and Measure 5.1, point 4 of Treating metal waste in shredder: appropriate measures for permitted and facilities. The plan must contain up-to-date written details of your treatment activities, and the abatement and control equipment you are using. This should include:</p> <ul style="list-style-type: none"> An equipment inventory, detailing plant type and design parameters – for example, time, temperature, pressure The control system philosophy and how the control system incorporates environmental monitoring information Venting and emergency relief provisions Process instrumentation diagrams <p>A copy of the updated procedure shall be submitted to the Environment Agency for approval.</p>	<p>Issue date + 3 months</p>
<p>IC 16</p> <p>Emissions control procedures</p>	<p>The operator shall review and update their emissions control procedures to ensure that they meet the requirements of the Environment Agency's guidance Waste electrical and electronic equipment (WEEE): appropriate measures for permitted facilities and Treating metal waste in shredders: appropriate measures for permitted facilities referred to in Table S1.2. Specifically, the operator must demonstrate that the following appropriate measure of the guidance will be met:</p> <p>Measure 6.2, point 7 of the Waste electrical and electronic appropriate measures: appropriate measures for permitted facilities and Measure 6.2, point 17 of Treating metal waste in</p>	<p>Issue date + 2 months</p>

Table S1.6 Improvement programme requirements		
	<p>shredders: appropriate measures for permitted facilities.</p> <ul style="list-style-type: none"> Set up a leak detection and repair programme to identify and mitigate any fugitive emissions from treatment plant and associated infrastructure (such as pipework, conveyors, tanks) <p>A copy of the updated procedure shall be submitted to the Environment Agency for approval.</p>	
<p>IC 17</p> <p>Monitoring of emissions</p>	<p>The operator shall submit a written report to the Environment Agency for written approval detailing the viability of monitoring emissions from the fridge destruction plant (V230 and V243).</p> <p>The report shall:</p> <ul style="list-style-type: none"> Include an assessment of the emission parameters from each emission point during the treatment process where emissions may be expected. The report shall provide an assessment of whether the emissions are sufficient to undertake monitoring as required by Table S3.1, supported by relevant evidence and justification, for example considering the duration and flow of the emissions; Outline proposals to improve the monitoring points in the event it is concluded there is sufficient emissions/flow to monitor the emission, but the monitoring/emission point does not meet the required specification for monitoring to take place; Outline proposals to implement an equivalent process monitoring of the treated gas re-circulated within the plant if concluded that and flow duration of emissions is insufficient for monitoring; Outline proposals to monitor fugitive releases from the vents/valves as part of the Leak Detection And Repair (LDAR)/diffuse emissions monitoring programme; and Outline timescales for improving monitoring points, or process monitoring, if required and the commencement of monitoring or process monitoring. 	<p>Issue date + 3 months</p>

Table S1.6 Improvement programme requirements		
	The operator shall implement any improvements as agreed in writing by the Environment Agency.	

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Diesel	Sulphur content not exceeding 0.1% by mass
Engine oil	-
Hydraulic oil	-
Lubrication greases	-
Nitrogen	-

Table S2.2 Permitted Waste types and quantities for Metal Shredding (AR1).	
Maximum Quantities	
The total quantity of waste accepted at the site shall be less than 219,000 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 Hazardous waste
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
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)

Table S2.2 Permitted Waste types and quantities for Metal Shredding (AR1).	
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 22	components not otherwise specified
16 02	discarded equipment and its components
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13 (cookers, washing machines, dishwashers and tumble dryers, excluding heat pump tumble dryers)
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15 (ferrous and non-ferrous metal waste only)
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 11	cables other than those mentioned in 17 04 10 (cable not containing oil, coal tar and other hazardous substances)
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
19 12 04	plastic and rubber
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

Table S2.2 Permitted Waste types and quantities for Metal Shredding (AR1).	
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 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 40	metals

Table S2.3 Permitted Waste types and quantities for fridge destruction plant (AR2).	
Maximum Quantities	The total quantity of waste accepted at the site for Activity A2 and A3 combined shall not exceed 200,000 tonnes per year.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> - Consisting solely or mainly of dusts, powders or loose fibres - Any waste containing asbestos.
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 (restricted to waste refrigeration units)
16 02 14	discarded equipment other than those mentioned in 16 02 09 and 16 02 13 (restricted to waste refrigeration units)
16 02 15*	hazardous components removed from discarded equipment (restricted to waste refrigeration units)
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15 (restricted to waste refrigeration components)
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 (restricted to waste refrigeration units)
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 (restricted to waste refrigeration units)

Table S2.4 Permitted waste types and quantities for hazardous waste storage facility (AR3).	
Maximum Quantities	The total quantity of waste accepted at the site for Activity A2 and A3 combined shall not exceed 200,000 tonnes per 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 01	wastes from electrical and electronic equipment
16 01 04*	end-of-life vehicles
16 01 07*	oil filters
16 01 11*	brake pads containing asbestos
16 01 13*	brake fluids
16 01 14*	antifreeze fluids containing hazardous substances
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 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 15*	hazardous components removed from discarded equipment
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	mercury-containing batteries
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 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 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (restricted to waste refrigeration units)

Table S2.5 Permitted waste types and quantities for Vehicle storage, depollution and dismantling (authorised treatment) facility (AR9).	
Maximum Quantities	The total quantity of waste accepted at the site shall not exceed 419,000 tonnes per year.

Table S2.5 Permitted waste types and quantities for Vehicle storage, depollution and dismantling (authorised treatment) facility (AR9).	
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 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	end of life tyres
16 01 04*	end-of-life vehicles
16 01 06	end-of life vehicles (containing neither liquids nor other hazardous components)
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 15	antifreeze fluids other than those mentioned in 16 01 14
16 01 16	tanks for liquefied gas
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 06	batteries and accumulators
16 06 01*	lead batteries
16 06 05	other batteries and accumulators

Table S2.6 Permitted Waste types and quantities for Waste Electrical and Electronic Equipment authorised treatment facility (AR10).	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 419,000 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 15*	hazardous components removed from discarded equipment
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries

Table S2.6 Permitted Waste types and quantities for Waste Electrical and Electronic Equipment authorised treatment facility (AR10).	
16 06 03*	mercury-containing batteries
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
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 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components

Table S2.7 Permitted Waste types and quantities for Metal Recycling (AR11).	
Maximum Quantities	
The total quantity of waste accepted at the site shall be less than 419,000 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
10	WASTES FROM THERMAL PROCESSES
10 02	wastes from iron and steel industry
10 02 10	mill scales
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 08	wastes from other non-ferrous thermal metallurgy thermal metallurgy
10 08 14	anode scrap
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS

Table S2.7 Permitted Waste types and quantities for Metal Recycling (AR11).	
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
12 01 13	welding wastes
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 17	ferrous metal
16 01 18	non-ferrous metal
16 01 22	components not otherwise specified
16 06	batteries and accumulators
16 06 01*	lead batteries
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 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

Table S2.7 Permitted Waste types and quantities for Metal Recycling (AR11).	
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03
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

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Emissions control system exhaust from metal shredder	Metal shredder air extraction and abatement system	Dust	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 13284-1
		Total VOCs	-	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 12619
		Brominated flame retardants	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	BS EN 1948
		Dioxin-like polychlorinated biphenyls (PCBs)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 1948-1, 2, 4.
		Metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Ti, V)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 14385
		Dioxins and furans (PCDD/F)	-	One sampling period of at least 6 hours	Annually ^{Note 1}	EN 1948-1, 2, 3
V230 (A2) Emissions control system exhaust (fridge plant) ^{Note 2}	Limited to the release of treated air from the plant when access is required for maintenance	Dust	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 13284-1
		CFCs	10 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	Following CEN/TS 13649
		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
				measurements of at least 30 minutes		
		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 6 monthly with written agreement from the Environment Agency	EN 12619
		Air flow	-	Average value of 3 consecutive measurements of at least 30 minutes?	Monthly for first 6 months then 6 monthly with written agreement from the Environment Agency	EN 16911-1
		Brominated flame retardants	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	BS EN 1948
		Dioxin-like polychlorinated biphenyls (PCBs)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 1948-1, 2, 4.
		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
		Dioxins and furans (PCDD/F)	-	One sampling period of at least 6 hours	Annually ^{Note 1}	EN 1948-1, 2, 3
V243 (A2) Emissions control system exhaust (fridge plant) ^{Note 2}	Limited to the release of treated air from the plant when access is required for maintenance	Dust	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 13284-1
		CFCs	10 mg/m ³	Average value of 3 consecutive measurements	6 monthly	Following CEN/TS 13649

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
				of at least 30 minutes		
		Total VOCs (concentration)	15 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes	6 monthly	EN 12619
		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 6 monthly with written agreement from the Environment Agency	EN 12619
		Air flow	-	Average value of 3 consecutive measurements of at least 30 minutes?	Monthly for first 6 months then 6 monthly with written agreement from the Environment Agency	EN 16911-1
		Brominated flame retardants	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	BS EN 1948
		Dioxin-like polychlorinated biphenyls (PCBs)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 1948-1, 2, 4.
		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
		Dioxins and furans (PCDD/F)	-	Average value of 3 consecutive measurements of at least 30 minutes	Annually ^{Note 1}	EN 1948-1, 2, 3

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
Note 1 - An alternative monitoring frequency may be agreed in writing with Environment Agency following completion of IC10						
Note 2 – Or alternative monitoring proposals as approved through the completion of IC 17						

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period (Note 1)	Monitoring frequency (Note 2)	Monitoring standard or method
S1 on site plan in schedule 7 emission to Salter Street foul sewer	Process water and site surface water drainage	Hydrocarbon oil index	10 mg/l	--	Monthly	EN ISO 9377-2
		Arsenic	0.05 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2 BS ISO 17378-1
		Cadmium	0.05 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2 BS EN ISO 5961
		Chromium	0.15 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2 BS EN 1233
		Copper	0.5 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2
		Lead	0.3 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2
		Nickel	0.5 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2
		Zinc	2.0 mg/l	--	Monthly	EN ISO 11885 EN ISO 17294-2
		Mercury	0.005 mg/l	--	Monthly	BS EN ISO 17852

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period (Note 1)	Monitoring frequency (Note 2)	Monitoring standard or method
		PFOA PFOS Deca BDE Note 3	-	--	6 monthly	BS ISO 25101
<p>Note 1 - Relevant reference period:</p> <ul style="list-style-type: none"> • In the case of continuous discharge, daily average values, i.e. 24-hour flow-proportional composite samples. • In the case of batch discharge, average values over the release duration taken as flow-proportional composite samples, or, provided that the effluent is appropriately mixed and homogeneous, a spot sample taken before discharge. <p>Note 2 – Monitoring frequencies may be reduced by written agreement of the Environment Agency if emission levels are proven to be sufficiently stable.</p> <p>Note 3 - Or parameters as approved through completion of IC10</p>						

Table S3.3 Ambient monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
At a location or locations agreed in writing with the Environment Agency that will obtain reliable and representative data on particulate emissions from the waste management operations.	Total suspended particulates (TSP) unless otherwise agreed in writing with the Environment Agency.	Quarterly unless otherwise agreed in writing with the Environment Agency.	The equipment shall be operated to a procedure agreed in writing with the Environment Agency. The emissions management plan must include action levels and regular review cycles with an overriding aim to reduce particulate emissions from the facility.	Monitoring equipment shall meet the MCERTS Performance Standards for Indicative Ambient Particulate Monitors or similar standard agreed in writing with the Environment Agency. The equipment shall be calibrated in accordance with the manufacturer's recommendations or 6 monthly, whichever is first. The system must be managed and maintained by suitably trained personnel. The system must obtain representative data that must accurately reflect TSP levels produced by the site's activities.

Table S3.4 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 1 degassing	WTEE unit type	Daily	Record of each unit degassed	Type 1 - 4
WTEE degassed	Refrigerant type			VHC, VFC or other (e.g. ammonia)
	Number of defective			-
WTEE Stage 1 degassing	Quantity of refrigerant collected over reporting period	Monthly	Weighed using calibrated scales of appropriate precision	-
WTEE Stage 1 degassing	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, 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 unit type	Daily	Record of number of units treated by type and blowing agent	Type 1 - 4
WTEE treated	Blowing agent type			VHC, VFC or other (e.g. carbon dioxide)
WTEE Stage 2 destruction	Lower Explosive Limit (LEL) or Limiting Oxygen	Continuous	-	-

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Contained environment	Concentration (LOC)			
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	Weighed using calibrated scales of appropriate precision	-
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	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	-	-
All mechanical treatment of WEEE	Mass balance	Annual		

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Treated process gas re-circulated in WTEE treatment plant, following cryo-genic condensation and carbon filtration	Flow	Note 1	Note 1	-
	Dust	Note 1	Note 1	Limit of 5 mg/m3
	Total VOCs	Note 1	Note 1	Limit of 15 mg/m3
	CFCs	Note 1	Note 1	Limit of 10 mg/m3
	Brominated flame retardants	Note 1	Note 1	-
	Dioxin-like polychlorinated biphenyls (PCBs)	Note 1	Note 1	-
	Metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V)	Note 1	Note 1	-
	Dioxins and furans (PCDD/F)	Note 1	Note 1	-
Note 1 – Process monitoring as agreed by IC 17				

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
Ambient Air 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 S4.1 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	A1 and A2.	Quarterly or as agreed in writing by the Environment Agency.	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	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 processed	tonnes
WEEE treated (excluding WTEE)	tonnes
WEEE 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	Version 1, 16/05/2019
Ambient air monitoring	Form ambient monitoring 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/30/2021

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
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	--
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	Destruction process efficiency reporting form (Appendix B Excel Form) or other form as agreed in writing by the Environment Agency	--
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	--
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.

“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 Tables S2.2 to S2.7 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

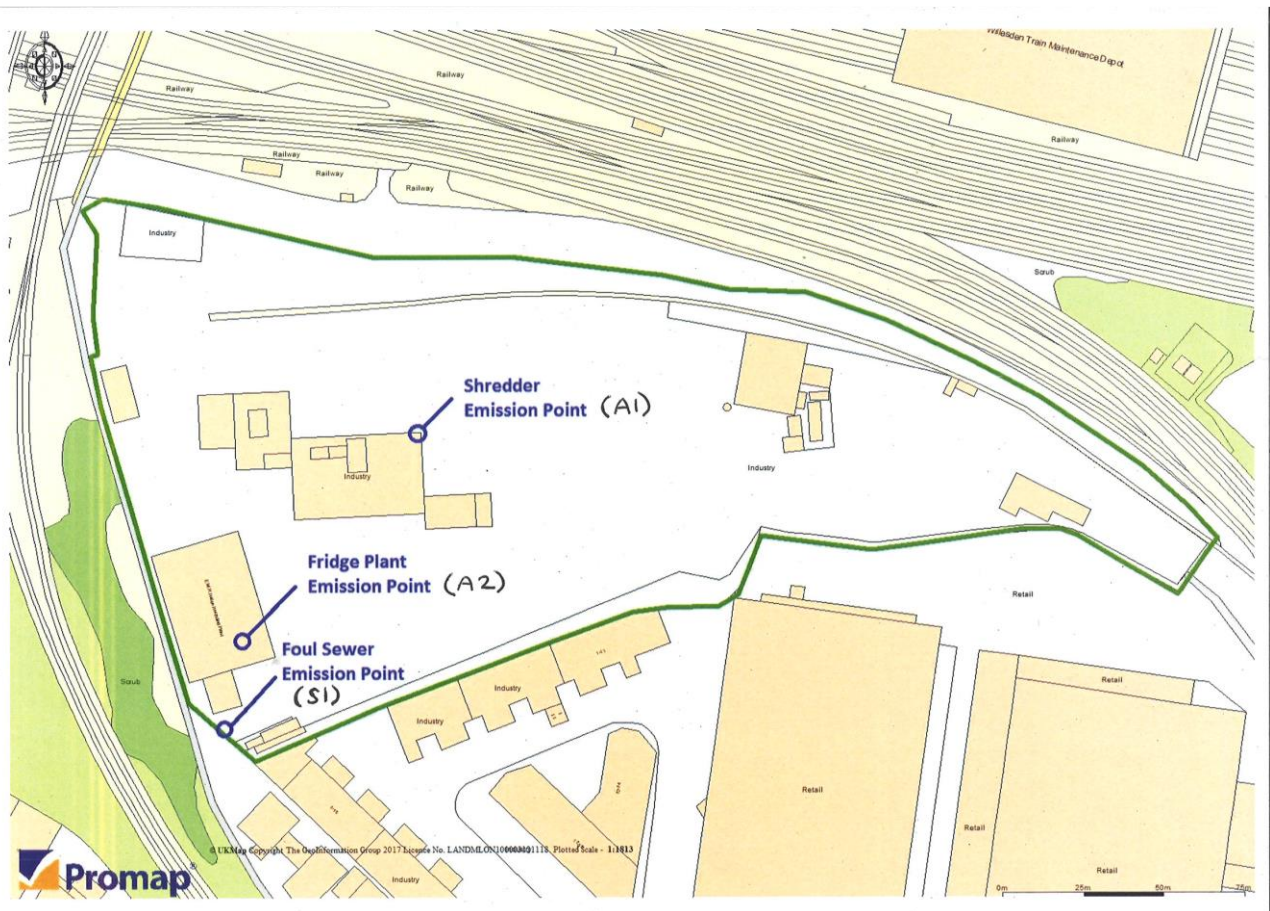
“polychlorinated biphenyls and polychlorinated terphenyls” (“PCBs”) means PCBs as defined in Article 2(a) of Council Directive 96/59/EC’.

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



END OF PERMIT

Emissions to Air Reporting Form

Permit number: **EPR/FB3205MK**

Operator: European Metal Recycling Limited

Facility name: Willesden Depot

Emissions to Air Reporting Form: version 1, 08/03/2021

Reporting of emissions to air for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
<i>[e.g. A1]</i>	<i>[e.g. Oxides of nitrogen (NO and NO₂ expressed as NO₂)]</i>	<i>[e.g. 200 mg/m³]</i>	<i>[e.g. daily average]</i>	<i>[e.g. BS EN 14181]</i>	<i>[State result]</i>	<i>[State relevant dates and time periods]</i>	<i>[State uncertainty if not 95% confidence interval]</i>

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as 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, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

[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)

Ambient Air Monitoring Form

Permit number: EPR/FB3205MK

Operator: European Metal Recycling

Facility name: Willesden Depot

Ambient Air Monitoring Form: version 1, 08/03/2021

Reporting of monitoring ambient air for the period from [DD/MM/YY] to [DD/MM/YY]

Monitoring point	Substance / parameter	Compliance limit	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
[e.g. P1]	[e.g. PM ₁₀ suspended particulate matter]	[e.g. 50 µg/m ³]	[24 hour average]	[e.g. BS EN 12341:2014]	[State result]	[State relevant dates and time periods]	[State uncertainty if not 95% confidence interval]

Monitoring point	Substance / parameter	Compliance limit	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.

² Give the result as 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, give the result as the 'minimum to maximum' of the measured values.

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

Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Emissions to Sewer Reporting Form

Permit number: EPR/FB3205MK

Operator: European Metal Recycling Limited

Facility name: Willesden Depot

Emissions to Sewer Reporting Form: version 1, 08/03/2021

Reporting of emissions to sewer for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
<i>[e.g. S1]</i>	<i>[e.g. Total suspended solids]</i>	<i>[e.g. 30 mg/l]</i>	<i>[e.g. For 95% of all measured values of periodic samples taken over one month]</i>	<i>[e.g. BS EN 872:2005]</i>	<i>[State result]</i>	<i>[State relevant dates and time periods]</i>	<i>[State uncertainty if not 95% confidence interval]</i>

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases, state the principal technique, for example gas chromatography.
- ² Give the result as 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, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Water Usage Reporting Form

Permit number: EPR/FB3205MK

Operator: European Metal Recycling Limited

Facility name: Willesden Depot

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year [YYYY]

Water source	Water usage (m ³)	Specific water usage (m ³ /unit) ²
Mains water	<i>[insert annual usage in m³ where mains water is used]</i>	<i>[insert annual usage in m³/unit where mains water is used]</i>
Site borehole	<i>[insert annual usage in m³ where water is used from a site borehole]</i>	<i>[insert annual usage in m³/unit where water is used from a site borehole]</i>
River abstraction	<i>[insert annual usage in m³ where abstracted river water is used]</i>	<i>[insert annual usage in m³/unit where abstracted river water is used]</i>
Other – <i>[specify other water source where applicable. Add extra rows where needed]</i>	<i>[insert annual usage in m³ where applicable]</i>	<i>[insert annual usage in m³/unit where applicable]</i>
Total water usage	<i>[insert total annual water usage in m³]</i>	<i>[insert total annual water usage in m³/unit]</i>

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: EPR/FB3205MK

Operator: European Metal Recycling

Facility name: Willesden Depot

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year [YYYY]

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) ²
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
Imported heat	<i>[insert annual consumption in MWh where heat is imported]</i>	<i>[insert annual consumption in MWh/unit where heat is imported]</i>
Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i>	<i>[insert annual consumption in MWh where applicable]</i>	<i>[insert annual consumption in MWh/unit where applicable]</i>
Electricity exported	<i>[insert annual production in MWh where electricity is exported]</i>	Not applicable
Heat exported	<i>[insert annual production in MWh where heat is exported]</i>	Not applicable

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

¹ Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

² Divide energy consumption by an appropriate unit of raw material processed or product output.

Other Performance Parameters Reporting Form

Permit number: EPR/FB3205MK
Facility name: Willesden Depot
08/03/2021

Operator: European Metal Recycling Limited
Other Performance Parameters Reporting Form: version 1,

Reporting of other performance parameters for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Parameter	Units
<i>[e.g. Total raw material usage]</i>	<i>[e.g. tonnes per production unit]</i>

Operator’s comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.

