Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Argo Natural Resources Limited

DEScycle Metals Recovery Installation
Wilton Centre
Pioneer Group
Redcar
TS10 4RF

Permit number

EPR/XP3429LR

DEScycle Metals Recovery Installation
Permit number EPR/XP3429LR

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The site operates a waste recovery process using solvents to extract base and precious metals from waste printed circuit boards (PCBs). The activity is regulated under:

- Section 2.2 Part A(1)(a) Producing non-ferrous metals from secondary raw materials by chemical activities
- Section 4.2 Part A(1)(a)(iii) Producing inorganic chemicals such as bases.

A bespoke waste operation permits the shredding of the received PCBs in preparation for the solvent activities.

Waste PCBs are firstly dismantled by hand to remove large components such as batteries. They are then size reduced through a shredder and microniser to produce a powder <0.1mm in size.

The micronised waste is then mixed with solvent and additives, heated and treated by leaching, cementation, precipitation, evaporation, adsorption and filtration to recover precious metals and metal salts from the micronised material.

Most of the treatment and storage activities are carried out inside a building; however untreated PCBs are stored externally within a shipping container and the microniser is also located within a shipping container.

There are two emission points to air from the processing plant and no process emissions to surface water or sewer; effluent is tankered offsite.

The site covers an area of approximately 0.2 hectares and is located at the Wilton Centre in Redcar. The immediate surroundings are industrial and commercial activities with the wider Wilton Estate to the north and northwest. Car parking, reservoirs and areas of open ground lie to the south and east. The nearest residential housing is approximately 1km to the southwest.

The *North York Moors SAC, SPA* lies approximately 7.7k to the south east and the *Teesmouth and Cleveland Coast SPA* lies approximately 4km to the north. There is also a SSSI (Lovell Hill Pools) within 2km of the site.

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

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/XP3429LR/A001	Duly made 18/12/2025	Application to recover materials from waste printed circuit boards (PCBs).
Additional information received	28/01/2026	Email response confirming the removal of EWC codes 16 02 13*, 16 02 16, 20 01 35* and 20 01 36 from the application.
Additional information received in response to response to Schedule 5 Notice dated 15/05/2026	27/05/2026	Commissioning Plan – prior to the use of the printed circuit board (PCB) treatment and recovery activities
	11/06/2026	Air emissions risk assessment (H1 screening tests) and air dispersion model

Status log of the permit		
Description	**Date**	**Comments**
	11/06/2026	Update on Abatement Plant
	11/06/2026	Screening for protected conservation areas - Revised Risk Assessment including risks to designated conservation sites
	01/06/2026	Shared Chemical and Waste Storage Areas
Request for further information email dated 15/05/2026	11/06/2026	Process emission points (internal and external)
Request for further information email dated 10/08/2026	12/08/2026	Process control procedures
Permit determined EPR/XP3429LR	13/08/2026	Permit issued to Argo Natural Resources Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/XP3429LR

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Argo Natural Resources Limited ("the operator"),

whose registered office is

Lynton House
7-12 Tavistock Square
London
WC1H 9BQ

company registration number **11151531**

to operate an installation and waste operation at

DEScycle Metals Recovery Installation
Wilton Centre
Pioneer Group
Redcar
TS10 4RF

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

Name	Date
Sandra Cavill	**13/08/2026**

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 AR5) 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 AR5) the operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

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

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

2 Operations

2.1 Permitted activities

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

2.1.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR5) 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, 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 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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 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.

2.3.5 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 table S2.2; 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 property 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.

Hazardous waste storage and treatment

2.3.8 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.

2.4 WEEE storage and treatment

2.4.1 Spillage collection facilities and, where appropriate, decanters and cleanser-degreasers shall be provided and used as necessary.

2.4.2 WEEE (disassembled spare parts, components and residues) shall be stored in areas provided with a weatherproof covering where appropriate or in containers providing a weatherproof covering where appropriate.

2.4.3 WEEE shall be treated using best available treatment, recovery and recycling techniques (BATRRT).

2.4.4 Equipment shall be provided and used to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

2.5 Improvement programme

2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.5.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

2.6.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 table S3.1.

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 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 table S3.1;

(b) process monitoring specified in table S3.2;

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 table S3.1 unless otherwise agreed in writing by the Environment Agency.

3.6 Fire prevention

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

3.6.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

(b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR5) a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production/treatment data set out in schedule 4 table S4.2; and

(c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

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

(a) in respect of the parameters and emission points specified in schedule 4 table S4.1;

(b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and

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

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

4.2.5 Within 1 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 quarter.

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.

4.4 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	S4.2 A(1) (a) (iii)	Producing inorganic chemicals such as bases	From receipt of raw materials (shredded WEEE waste) to the storage and despatch of products Waste types and tonnages as specified in Table 2.2.
AR2	S2.2 A(1) (a)	Producing non-ferrous metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic activities	From receipt of raw materials (shredded WEEE waste) to the storage and despatch of products Waste types and tonnages as specified in Table 2.2.
Directly Associated Activity			
AR3	Directly associated activity	Raw material handling and storage	From receipt of raw materials to dispatch into production activities.
AR4	Directly associated activity	Waste handling and storage	From receipt of wastes generated onsite to dispatch offsite.
AR5	Directly associated activity	Air pollution collection and abatement system	From collection of gases from permitted activities, treatment in abatement system and discharge to air.

Activity reference	**Description of activities for waste operations**	**Limits of activities**
AR6	**Waste electrical and electronic equipment authorised treatment facility** **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) **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 compounds	Treatment operations shall be limited to: • Treatment consisting only of sorting, dismantling, separation, shredding, micronisation for recovery. The maximum quantity of hazardous waste (in aggregate) that can be stored at the site shall not exceed 50 tonnes at any one time. No more than 10 tonnes per day of hazardous waste to be treated at the site under an R3, R4, R5 activity. Treatment of WEEE shall be carried out within a building or provided with a weatherproof covering. Buildings, covered areas or containers shall meet the following requirements: • buildings, covered areas, or containers shall be designed, constructed and maintained to prevent ingress of rain and surface water; • rain and uncontaminated surface water shall be kept separate from contaminated water and other liquids; • containers containing waste shall be stored on an impermeable surface with sealed drainage system. Waste types suitable for acceptance are limited to those specified in Table S2.2.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/XP3429LR/A001	Technical standards in relation to Best Available Techniques: • Waste Treatment BAT Reference document • Waste batteries: 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 • Non-Ferrous Metals and the Production of Carbon and Graphite • The Inorganic Chemicals Sector Guidance (EPR 4.03) • Non-ferrous Metals Industries BAT Conclusion Document • Speciality Inorganic Chemicals BAT Reference document	Duly Made 18/12/2025
Application	DESC.01.01/EPTR Issue 2 DESC.01.01/NTS: Issue 2 DESC.01.01/RFI Issue 1	18/12/2025 18/12/2025 18/12/2025
Additional information received in response to Schedule 5 Notice dated 30/04/2026	Waste pre-acceptance testing procedures, waste treatment	18/05/2026
Additional information received in response to response to Schedule 5 Notice dated 15/05/2026	Commissioning Plan – prior to the use of the printed circuit board (PCB) treatment and recovery activities	27/05/2026
	Update on Abatement Plant	11/06/2026
	Screening for protected conservation areas - Revised Risk Assessment including risks to designated conservation sites	11/06/2026
	Shared Chemical and Waste Storage Areas	01/06/2026
Request for further information email dated 15/05/2026	Process emission points (internal and external)	11/06/2026
Request for further information email dated 10/08/2026	Process emission points (internal and external)	12/08/2026

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1 Proposed air emissions monitoring programme	The operator shall submit a written report to the Environment Agency for technical assessment and written approval that proposes a monitoring programme to fully characterise and assess the facility's point source emission(s) to air from activities AR1 and AR2 (solvent-based material recovery activities from shredded WEEE waste). The report shall: a) detail the monitoring methods and frequencies to be used and justify any alternatives to the methods set out in Schedule 3, Table S3.1 for monitoring the listed parameters; b) confirm with supporting evidence that the monitoring will be representative of worst-case conditions (e.g. operating with typical waste streams at maximum plant throughput); c) establish a timetable for undertaking the monitoring. The monitoring programme shall be carried out in line with the timescales approved by the Environment Agency.	30th September 2026
IC2 Emissions inventory to air	Following completion of IC1 the Operator shall submit a report to the Environment Agency for technical assessment and written approval. The report shall: a) present the results of monitoring undertaken from the point source emissions to air from activities AR1 and AR2 to fully characterise and confirm emissions from the treatment processes to inform an emissions inventory; b) include proposals for an ongoing monitoring programme, including frequency of monitoring, which, as a minimum, shall include the parameters listed in Schedule 3, Table S3.1 and any other parameters identified in the emissions inventory required by a) above. Where a parameter identified in the emissions inventory is not included in an ongoing monitoring proposal, you must present conclusive evidence to justify its omission. The ongoing monitoring programme shall be implemented in line with the timescales approved by the Environment Agency.	31st March 2027

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC3a Updated Environmental Risk Assessment	Following completion of IC2 the operator shall submit a report to the Environment Agency for technical assessment and written approval. The report shall include: • the results and conclusions from an environmental risk assessment to air, land and water, including sensitive receptors (human health and ecological), from the emissions of all relevant parameters identified in the approved emissions inventory using monitoring data gathered under IC2. The assessment must be carried out using the Environment Agency's 'H1 Environmental Risk Assessment' tool (or equivalent as agreed with the Environment Agency) and detailed emissions modelling if required, following our guidance: Risk assessments for your environmental permit - GOV.UK Where there are no published Environment Assessment Levels (EALs), you should derive EALs in accordance with our guidance: Methodology for the scientific derivation of environmental assessment levels - GOV.UK • a proposal of the method(s) to be taken to reduce or abate emissions where detailed assessment shows likely breaches of EALs, critical loads or critical levels at the receptors, including timescales for completion. The Operator shall implement any agreed method(s) identified within the report in accordance with the Environment Agency's written approval and within the approved timescales.	30th June 2027
IC3b	Following completion of IC3a the operator shall submit a report to the Environment Agency for assessment and written approval. The report shall include: • a proposal for emission limit values for any parameters identified in the updated risk assessment to be included in Emissions Table S3.1.	30th September 2027
IC4 PFAS Characterisation, and Mass Balance	The Operator shall provide a per- and polyfluoroalkyl substances (PFAS) mass balance methodology to the Environment Agency for technical assessment and written approval. The methodology shall include: a) Identification of speciated PFAS to be included in an assessment including justification for their inclusion; b) Identification of all relevant process inputs, intermediate process streams, outputs, products, residues, waste streams and emissions to be assessed; c) Methodology for quantifying and assessing PFAS entering, leaving, being recovered, emitted, transformed, destroyed or potentially accumulating within the process. The methodology should also include a sampling and monitoring programme, sampling locations, monitoring frequencies, analytical methods and limits of detection d) Timescales for implementing the methodology. The Operator shall implement the methodology to timescales agreed with the Environment Agency	30th November 2026

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC5 PFAS Environmental Risk Assessment	The Operator shall provide a risk assessment to the Environment Agency for technical assessment and written approval, based on the findings of IC4. The risk assessment shall include: a) assessment of the environmental risks to air, land and water associated with PFAS throughout the permitted operations; b) identification of any uncertainties, limitations or data gaps relevant to the assessment; c) proposals for any further monitoring or investigation; d) proposals for control measures necessary to minimise environmental risk including timescales for their implementation. The Operator shall implement the proposals to timescales agreed with the Environment Agency.	30th April 2027
IC6 PFAS Management Plan	The Operator shall provide a PFAS Management Plan to the Environment Agency for assessment and written approval. The Plan shall include proposals for the frequency at which the emissions inventory and mass balance shall be reviewed and other criteria where changes would trigger a review. These changes shall include but not be limited to: • feedstock composition • process operation • performance of abatement systems • monitoring results that indicate an adverse trend in emissions • regulatory requirements The PFAS Management Plan shall form part of the Environmental Management System and shall be used to demonstrate the ongoing identification, characterisation and control of PFAS emissions, transfers and accumulation within the installation.	31st May 2027

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
-	-

Table S2.2 Permitted Waste types and quantities for Waste Electrical and Electronic Equipment authorised treatment facility	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 3650 tonnes a year.
Waste Code	**Description**
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 02	**wastes from electrical and electronic equipment**
16 02 15*	hazardous components removed from discarded equipment (*limited to waste printed circuit boards only)*

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter** note 3	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method** note 1
A1	Abatement plant serving: • DES1 Regen • DES1 Conditioning • DES2 Regen	Volatile Organic compounds (as benzene) note 4	To be agreed in line with IC3b			CEN TS 13649
		Volatile Organic compounds (as 1,3 butadiene) note 4	To be agreed in line with IC3b			CEN TS 13649
		Volatile Organic compounds (as acetaldehyde) note 4	To be agreed in line with IC3b			CEN TS 13649
		Total VOCs (as mgC/Nm^3)	20mg/Nm^3	Average value of 3 consecutive measurements of at least 30 minutes	3 monthly note 2	EN 12619
		Formaldehyde (CH_2O) note 4	To be agreed in line with IC3b			CEN TS 17638
		Hydrogen chloride (HCl) note 4	To be agreed in line with IC3b			EN 1911
		Hydrogen Fluoride (HF) note 4	To be agreed in line with IC3b			CEN TS 17340
		Hydrogen Bromide (HBr) note 4	To be agreed in line with IC3b			US EPA M26/M26A
		Total particulate matter (dust)	5mgN/m^3	Average value of 3 consecutive measurements of at least 30 minutes each	6-monthly note 2	BS EN 13284-1
		Metals and metalloids excluding mercury (including As, Cd, Co, Cr, Cu, Li, Mn, Ni, Pb, Sb, Se, Tl, V, Zn)	0.5mg/Nm^3	Average value of 3 consecutive measurements of at least 30 minutes	Annually	EN 14385
		Lead note 4	To be agreed in line with IC3b			EN 14385

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter** note 3	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method** note 1
		Cadmium and thallium note 4	To be agreed in line with IC3b			EN 14385
		Mercury (and its compounds as Hg) note 4	To be agreed in line with IC3b			EN 13211
		Antimony note 4	To be agreed in line with IC3b			EN 14385
		Lithium note 4	To be agreed in line with IC3b			EN 14385
		Cobalt note 4	To be agreed in line with IC3b			EN 14385
		Chromium (as chromium III) note 4	To be agreed in line with IC3b			
		Particulate matter (PM_{10}) note 4	To be agreed in line with IC3b			EN ISO 23210
		Particulate matter ($PM_{2.5}$) note 4	To be agreed in line with IC3b			EN ISO 23210
		Dioxin-like polychlorinated biphenyls (PCBs)	0.1 ng I-TEQ/m³	One sampling period of at least 6 hours	6-monthly note 2	EN 1948-1, 2, 4.
		Dioxins and furans (PCDD/F)	0.1 ng I-TEQ/m³	One sampling period of at least 6 hours	6-monthly note 2	EN 1948-1, 2, 3
		Brominated Flame retardants (as bromine) note 4	To be agreed in line with IC3b			EN 1948-1, 2, 3
		Nickel and its compounds note 4	To be agreed in line with IC3b			EN 14385
		Selenium note 4	To be agreed in line with IC3b			EN 14385
		Vanadium note 4	To be agreed in line with IC3b			EN 14385

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter** note 3	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method** note 1
		Sulphur dioxide (sulphur oxides as SO_2) note 4	To be agreed in line with IC3b			EN 14791
		Chlorine note 4	To be agreed in line with IC3b			US EPA Method 26/26A
		Ammonia note 4	To be agreed in line with IC3b			EN ISO 21877
		Sulphuric acid (H_2SO_4) note 4	To be agreed in line with IC3b			US EPA method 8
		Phosphoric acid (as orthophosphoric acid) note 4	To be agreed in line with IC3b			
		Per- and poly-fluoroalkyl substances (PFAS) Note 4	To be agreed in line with IC3b			US EPA OTM-45, US EPA OTM-50 note 5
A2	Local exhaust ventilation serving: • DES1 Leach • DES1 Value Recovery • DES1 Clean up • DES1 Conditioning • DES2 Leach • DES2 Value Recovery Stage 2 • DES2 Conditioning • DES2 Value Recovery Stage 1 • DES2 Clean up Stage 1 • DES2 Clean up Stage 2	Volatile Organic compounds (as benzene) note 4	To be agreed in line with IC3b			CEN TS 13649
		Volatile Organic compounds (as 1,3 butadiene) note 4	To be agreed in line with IC3b			CEN TS 13649
		Volatile Organic compounds (as acetaldehyde) note 4	To be agreed in line with IC3b			CEN TS 13649
		Total VOCs expressed as mg C/Nm^3)	20mg/Nm^3	Average value of 3 consecutive measurements of at least 30 minutes	3 monthly note 2	EN 12619
		Hydrogen chloride (HCl) note 4	To be agreed in line with IC3b			EN 1911
		Metals and metalloids excluding mercury (including As, Cd, Co, Cr, Cu, Li, Mn, Ni, Pb, Sb, Se, Tl, V, Zn)	0.5mg/Nm^3	Average value of 3 consecutive measurements of at least 30 minutes	Annually	EN 14385

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter** note 3	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method** note 1
		Lead note 4	To be agreed in line with IC3b			EN 14385
		Cadmium and thallium note 4	To be agreed in line with IC3b			EN 14385
		Mercury (and its compounds as Hg) note 4	To be agreed in line with IC3b			EN 13211
		Antimony note 4	To be agreed in line with IC3b			EN 14385
		Lithium note 4	To be agreed in line with IC3b			EN 14385
		Cobalt note 4	To be agreed in line with IC3b			EN 14385
		Chromium (as chromium III) note 4	To be agreed in line with IC3b			
		Particulate matter (PM_{10}) note 4	To be agreed in line with IC3b			EN ISO 23210
		Particulate matter ($PM_{2.5}$) note 4	To be agreed in line with IC3b			EN ISO 23210
		Dioxin-like polychlorinated biphenyls (PCBs	0.1 ng I-TEQ/m³	One sampling period of at least 6 hours	6-monthly note 2	EN 1948-1, 2, 4.
		Dioxins and furans (PCDD/F)	0.1 ng I-TEQ/m³	One sampling period of at least 6 hours	6-monthly note 2	EN 1948-1, 2, 3
		Brominated Flame retardants (as bromine) note 4	To be agreed in line with IC3b			EN 1948-1, 2, 3
		Nickel and its compounds note 4	To be agreed in line with IC3b			EN 14385
		Selenium note 4	To be agreed in line with IC3b			EN 14385

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter** note 3	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method** note 1
		Vanadium note 4	To be agreed in line with IC3b			EN 14385
		Sulphur dioxide (sulphur oxides as SO_2) note 4	To be agreed in line with IC3b			EN 14791
		Chlorine note 4	To be agreed in line with IC3b			US EPA Method 26/26A
		Ammonia note 4	To be agreed in line with IC3b			EN ISO 21877
		Per- and poly-fluoroalkyl substances (PFAS) note 4	To be agreed in line with IC3b			US EPA OTM-45, US EPA OTM-50 note 5

Note 1. To the extent possible, the measurements are carried out at the highest expected emission state under normal operating conditions.

Note 2. Monitoring frequencies may be reduced with the written agreement of the Environment Agency if emission levels are proven to be sufficiently stable.

Note 3. This parameter may be omitted if the operator has demonstrated that the substance(s) are not relevant based upon the emissions inventory of the facility as required under IC2.

Note 4. Monitoring frequency to be determined depending upon the outcome of IC2

Note 5. US EPA OTM-55 was under development at the date of permit issue but should also be considered once available.

Table S3.2 Process monitoring requirements			
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**
PFAS Emissions Inventory	PFAS Mass Balance	On a frequency to be agreed with the Environment Agency following completion of IC5	Approved PFAS Management Plan as set out in the response to Improvement Condition IC5

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**
Point source emissions to air Parameters as required by condition 3.5.1	A1, A2	Every 6 months	1 January, 1 July
Process monitoring parameters as required by Condition 3.5 and Table S3.2 (PFAS Emissions Inventory)	PFAS Mass balance	On a frequency to be agreed with the Environment Agency following completion of IC3b	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
WEEE processed	Tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	m^3 per tonne of production
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Parameter	**Reporting form**	**Form version number and date**
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 2, February 2026
Process monitoring	Process Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 2, February 2026
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

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	
Substance(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	
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	
Substance(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.

“Batteries Directive“ means Directive 2006/66/EC of the European Parliament and of the Council on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC”, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

“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.

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

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

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

“Hazardous property” has the meaning in Annex lll 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).

“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.

“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.

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

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

"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.

‘treatment in shredders’ 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.’

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“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).

“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.

Where the following terms appear in the waste code list in Table S2.2 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

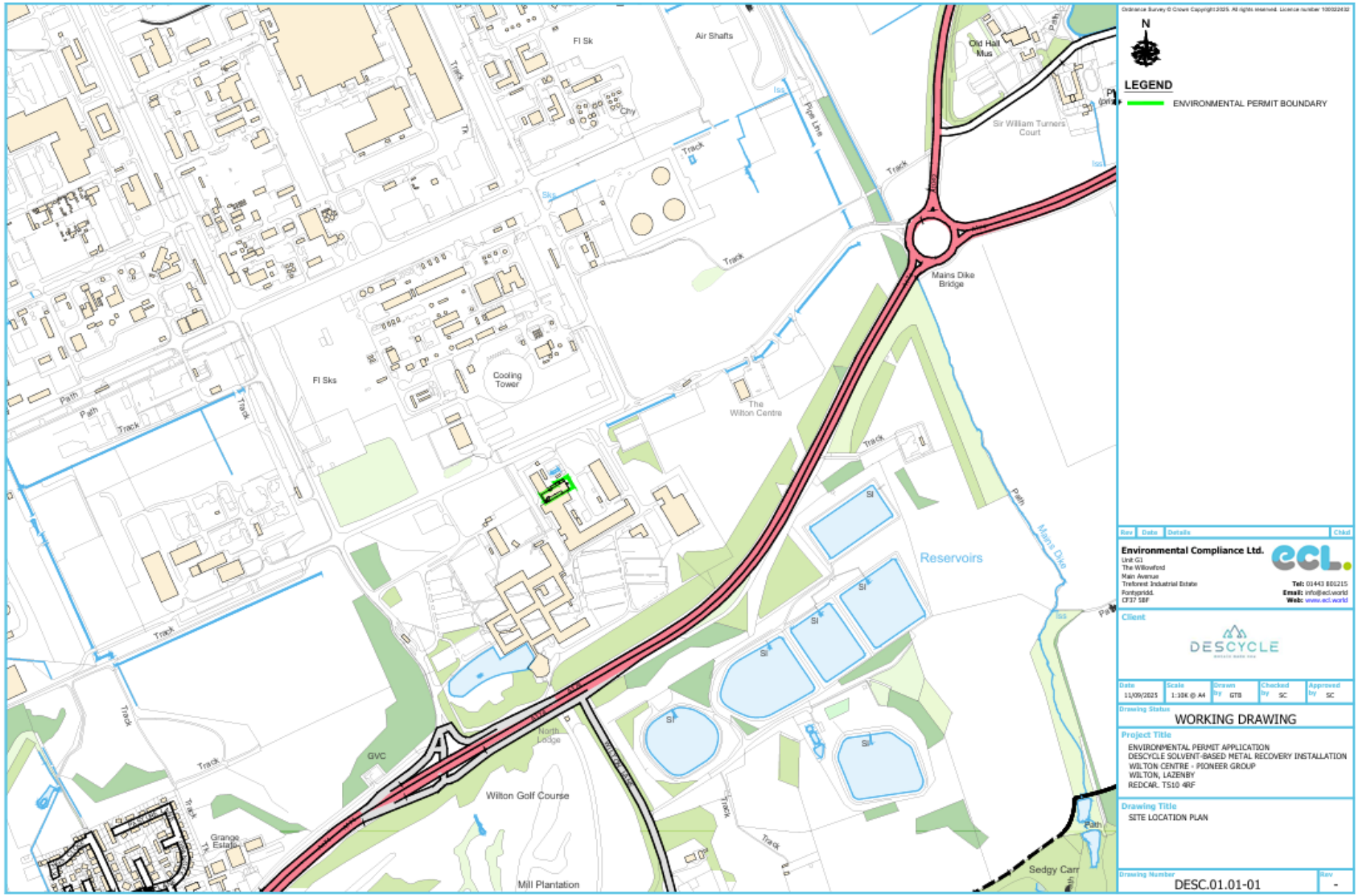
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

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 “year” means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT