

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

EnviroWales Limited

Rassau Recycling Facility
Plateaux 1 & 2
Rassau Industrial Estate
Ebbw Vale
Blaenau Gwent
NP23 5SD

Permit number
EPR/EP3230BW

Rassau Recycling Facility

Permit number EPR/EP3230BW

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This variation is a consolidation the existing permit and the three subsequent variations as well as permitting the construction and operation of the following at the installation:

- An automated lead casting machine
- A plastics washing and granulating plant with a capacity of 21,000 tonnes per annum
- A slag handling facility with a capacity of 8,000 tonnes per annum
- A materials handling and storage facility with a capacity of 70,000 tonnes per annum
- A new lead melting operation and associated emission point.

In addition to the above a transport marshalling facility will be installed as well as a wheel wash and decontamination facility. The number of refining kettles has increased from four to six with the capacity of each kettle increased to 120 tonnes. As a result of the increased efficiency of the refinery operation the effluent treatment has increased its discharge volume.

Emissions to air from A2 have been increased as a result of a change in operation where batteries are desulphurised prior to smelting.

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

Status Log of the permit		
Detail	Date	Response Date
Application EP3230BW	Duly Made 13/10/04	
Response to request for information	Requests dated 21/12/04, 03/03/05	Responses dated 17/01/05, 15/03/05
Request to extend determination	Requests dated 22/02/05, 23/03/05, 06/04/05	Requests accepted 23/02/05, 24/3/05, 06/04/05
Permit determined	26/04/05	
Application for variation EP3439LB	Duly Made 16/01/06	
Variation notice EP3439LB issued	28/04/06	
Variation Application DP3534UB	Duly Made 12/06/07	
Application Withdrawn by Operator	16/08/08	
Agency Initiated Variation EPR/EP3230BW/V004 (PAS ref. GP3938GX)	Requested 21/08/08	
Response from operator	25/11/08	Response with comments dated 25/11/08
Variation notice EPR/EP3230BW/V004 issued	09/01/09	
Agency Initiated Variation EPR/EP3230BW/V005 (PAS ref. WP3037TE)	Requested 05/07/10	
Variation notice EPR/EP3230BW/V005 issued	09/07/10	
Application EPR/EP3230BW/V006 (variation and consolidation)	Duly made 09/10/13	Application to vary and update the permit to modern conditions
Variation determined EPR/EP3230BW	15/04/14	Varied and consolidated permit issued in modern condition format

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/EP3230BW

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/EP3230BW/V006 authorising,

EnviroWales Limited ("the operator"),
whose registered office is

Faulkner House
Victoria Street
St Albans
Herts
AL1 3SE

company registration number **04296277**
to operate an installation at

Rassau Recycling Facility
Plateaux 1 & 2
Rassau Industrial Estate
Ebbw Vale
Blaenau Gwent
NP23 5SD

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

Name	Date
<i>A. M. Lewis</i>	15/04/2014

Authorised on behalf of Natural Resources Wales

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.

1.2 Energy efficiency

- 1.2.1 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 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”).

2.2 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
 - (a) 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 Natural Resources Wales.
 - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 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.
- 2.3.4 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.
- 2.3.5 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.

Waste battery and accumulator treatment

- 2.3.6 Treatment of waste batteries and accumulators must meet the minimum requirements set out in Annex III, Part A of 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.

2.4 Improvement programme

- 2.4.1 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 Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4B shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

- 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1, S3.2 and S3.3;
 - (b) ambient air 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 Natural Resources Wales.
- 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, S3.2 and S3.3 unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 Natural Resources Wales 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, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

4.3 Notifications

- 4.3.1 (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit,] 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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 "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

	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
A1 – A2	2 x Section 2.2 A(1)(a) : Non-Ferrous Metals	Producing non-ferrous metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic activities	Feed of materials and fuels for smelting in two Rotary Furnaces through to discharge of molten lead and discharge from the process stacks
A3 – A8	6 x Section 2.2 A(1) b) i) : Non-Ferrous Metals	Melting, including making alloys, of non-ferrous metals more than 4 tonnes per day including secondary raw materials, recovered lead products, lead scrap to lead refining	Operation of melting and refining activities to produce lead ingots and slab within 6 x 120te refining kettles. Operation of In-line casting machine and associated abatement equipment and discharge from the process stacks
A9 – A10	2 x Section 2.2 A(1) b) ii) : Non-Ferrous Metals	Melting, including making alloys, of non-ferrous metals more than 4 tonnes per day including secondary raw materials, recovered lead products, lead scrap to lead refining	Operation of melting and refining activities at DM building to produce lead ingots and slab within 2 x 25te refining kettles. Operation of specialist hand casting, anode burning, extrusion press, associated abatement equipment and discharge from the process stack A6
Directly Associated Activity			
A11	Receipt of raw materials from suppliers or recovery of raw materials from battery breaking. Preparation and storage of raw materials or process feedstock.	Recovery of raw materials from the battery breaker or receipt on site. Subsequent processing and feeding materials only for the installation smelting, melting or refining processes.	
A12	Storage and handling of associated solid and liquid wastes and other lead bearing wastes.	Activities from separation of wastes to despatch or releases from installation.	
A13	Treatment and discharge of process or surface water and site drainage from the installation.	All effluent treatment and any interceptors to point of entry to controlled waters	
A14	Treatment and discharge of foul water from the installation.	All effluent treatment to point of entry to foul sewer.	
A15	Plastics washing and granulation plant	Recovery of plastic wastes generated from the battery breaking process	
A16	Materials handling facility	Storage of raw materials prior to melting and refining activities	
A17	Slag handling facility	Treatment of furnace slag generated from the on-site smelting process	
A18	Lead rolling mill and cutting lines	Operation of three cold rolling mills and three cutting lines to customer specification	

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in pages/section <i>EW-B2.1 to EW-B2.2.11</i> of the application	12/09/04
Response to Schedule 4 Part 1 Notice	Response to questions contained therein.	17/01/05
Response to Schedule 4 Part 1 Notice	Response to questions contained therein.	15/03/05
Additional Information	All parts contained within faxes received 16/03/05 regarding rotary furnace slag leachate analysis (Biffa Waste Service and Engitec Ltd. correspondence therein refers)	16/03/05
Application	Part C3 technical Standards How to comply S2.03 Non-ferrous metals EP3230BW_VAR_2013 Sect.2	09/10/13
Response to Schedule 5 Notice	A6 stack discharge parameters Capacities of plastics recycling plant, materials handling and waste storage area, and the slag handling facility	17/02/14
Additional Information	E-mail referenced ' <i>Storage confirmation 040414</i> ' providing details of the storage of batteries to site.	04/04/14
Responses to pre operational measures 1-5	Plans submitted and approved by NRW in response to the pre operational measures 1-5.	On receipt of agreed plans

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1 – IC15	Completed	
IC16	<p>The Operator shall submit to Natural Resources Wales, for approval, an updated Site Condition Report with the following points:</p> <ol style="list-style-type: none"> 1. Provide a list of any pollution incidents that have affected the land proposed for the Direct Milling Mill as well as the current use of the land. 2. Provide, if available, previous historical site investigations and the corresponding reports. 3. Provide evidence of the baseline soil conditions at the centre of the proposed Direct Milling Site in line with BS 10175:2011 to establish representative baseline data. Justification would be required in the absence of any baseline data for this area. 4. In addition to establishing baseline levels NRW request that PCB levels also be sampled as scrap electrical equipment is brought onto site. 5. Only one sample of groundwater was collected. Further sampling is required to establish a representative baseline level. <p>In the absence of representative baseline data NRW will assume that the baseline level of contamination is zero.</p>	01/07/14
IC17	The Operator shall update the following plans on commencement of each	Within 3

of the pre operational measures listed in Table S1.4B.	months of
1. Environment Management System	receipt of
2. Odour Management Plan	agreed plans
3. Accident Management Plan	
4. Noise Management Plan	
5. Emissions Management Plan	

Table S1.4B Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Lead melting operations at the Direct Milling building	The Operator shall submit a written commissioning plan based on the final design to NRW, along with timescales for implementation. The plan shall be designed to demonstrate that permit conditions will be met under all anticipated operating conditions and shall confirm the commissioning programme and plant monitoring protocols. The plan shall be implemented in accordance with NRW's written approval and commissioning shall not commence until that approval is provided.
PO2	Plastics washing and granulation plant for heavy plastics	The Operator shall submit a plan based on the final design to NRW, along with timescales for implementation. The plan shall demonstrate that permit conditions will be met under all anticipated operating conditions and shall confirm the commissioning programme and plant monitoring protocols. The plan shall be implemented in accordance with NRW's written approval and commissioning shall not commence until that approval is provided.
PO3	Materials handling facility	The Operator shall submit a plan based on the final design to NRW, along with timescales for implementation. The plan shall demonstrate that permit conditions will be met under all anticipated operating conditions and shall confirm the commissioning programme and plant monitoring protocols. The plan shall be implemented in accordance with NRW's written approval and commissioning shall not commence until that approval is provided.
PO4	Slag handling facility	The Operator shall submit a plan based on the final design to NRW, along with timescales for implementation. The plan shall demonstrate that permit conditions will be met under all anticipated operating conditions and shall confirm the commissioning programme and plant monitoring protocols. The plan shall be implemented in accordance with NRW's written approval and commissioning shall not commence until that approval is provided.

Table S1.4B Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO5	AQ assessment A6 including based on final design	<p>Prior to the operations of the Direct Milling Mill the Operator shall submit an air quality assessment based on the final design to NRW to assess the impact from A6 and its associated emissions to air.</p> <p>The plan shall be submitted for NRW's written approval and operations shall not commence until that approval is provided.</p> <p>The assessment shall also consider the existing stack emission points taking into consideration monitoring data collected</p>

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Mercury concentration in caustic used at installation	0.5 ppm maximum

Table S2.2 Permitted waste types and quantities for lead recovery operation	
Waste code	Description
10	WASTE FROM THERMAL PROCESSES
10 04	Wastes from lead thermal metallurgy
10 04 01*	Slags from primary and secondary production
10 04 02*	Dross and skimmings from primary and secondary production
10 04 04*	Flue-gas dust
10 04 05*	Other particulates and dust
10 04 06*	Solid waste from gas treatment
10 04 07*	Sludges and filter cakes from gas treatment
10 04 99	Wastes not otherwise specified
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
11 02	Wastes from non-ferrous hydrometallurgical processes
11 02 03	Wastes from the production of anodes for aqueous electrolytical processes
11 02 07*	Other wastes containing dangerous substances
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 03	Non-ferrous metal filings and turnings
12 01 04	Non-ferrous metal dust and particles
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 06	Batteries and accumulators
16 06 01*	Lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	Mercury-containing batteries
16 06 04	Alkaline batteries (except 16 06 03)
16 06 05	Other batteries and accumulators
16 06 06*	Separately collected electrolyte from batteries and accumulators
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 10	Wastes from shredding of metal-containing wastes
19 10 02	Non-ferrous waste
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 11*	Other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances

Table S2.2 Permitted waste types and quantities for lead recovery operation

Waste code	Description
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 34	Batteries and accumulators other than those mentioned in 20 01 33

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref.	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Sulphuric Acid mist	Wet scrubber abatement serving Battery Breaking	1 mg/m ³	6 Monthly extractive sample	Twice a year Min interval between monitoring 4 months	US EPA method 8
	Total Particulate		5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13284-1
	Cadmium and compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Copper, lead, nickel, zinc and their compounds (as metal)		2 mg/m ³ Quarterly extractive sample	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Antimony, tin, tellurium and their compounds (as element)		2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Cadmium, arsenic, thallium, selenium, and their compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Mercury (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
A2 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Lead and compounds (as metal)	Bag filter abatement plant serving Rotary Furnace F1 and F2	2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Total Particulate		5 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13284-1
			10 mg/m ³	Daily average	Continuous	EN 14181
	Sulphur Dioxide		500 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14791

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref.	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
			500 mg/m ³	Daily average	Continuous	EN 14181
	Hydrogen Chloride		10 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 1911
	Cadmium and compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Copper, lead, nickel, zinc and their compounds (as metal)		2 mg/m ³ Quarterly extractive sample	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Antimony, tin, tellurium and their compounds (as element)		2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Cadmium, arsenic, thallium, selenium, and their compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Mercury (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Dioxins and Furans (ITEQ)		0.1 ng/m ³	Extractive sample (min 4 hrs max 8hrs)	Two per year Min interval between monitoring 2 months	BS EN 1948
	Oxides of Nitrogen		100 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14792
			200 mg/m ³	Daily average	Continuous	EN 14181
	Carbon Monoxide		1000 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 15058
	Volatile Organic Compounds		50 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13649

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref.	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
			100 mg/m ³	Daily average	Continuous	EN 14181
A3 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Lead and compounds (as metal)	Bag filter abatement plant serving Refining Kettles K2-K6 and Scrap Melting Kettle K1	2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Total Particulate		5 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13284-1
			10 mg/m ³	Daily average	Continuous	EN 14181
	Sulphur Dioxide		500 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14791
	Hydrogen Chloride		10 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 1911
	Cadmium and compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Copper, lead, nickel, zinc and their compounds (as metal)		2 mg/m ³ Quarterly extractive sample	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Antimony, tin, tellurium and their compounds (as element)		2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Cadmium, arsenic, thallium, selenium, and their compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Mercury (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Dioxins and Furans (ITEQ)		0.1 ng/m ³	Extractive sample (min 4 hrs max 8hrs)	Two per year Min interval between monitoring 2 months	BS EN 1948
	Oxides of Nitrogen		100 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14792

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref.	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
	Carbon Monoxide		150 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 15058
	Volatile Organic Compounds		50 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13649
A4 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Lead and compounds (as metal)	Bag filter abatement plant serving Slag Treatment and storage area	2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Total Particulate		5 mg/m ³	Monthly CEMS average and Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13284-1
			10 mg/m ³	Daily average	Continuous	EN 14181
	Cadmium and compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Copper, lead, nickel, zinc and their compounds (as metal)		2 mg/m ³ Quarterly extractive sample	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Antimony, tin, tellurium and their compounds (as element)		2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Cadmium, arsenic, thallium, selenium, and their compounds (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Mercury (as element)		0.5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
A5 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Sulphur Dioxide	Oxy-gas burners for Scrap Melting Kettle K1 and refining kettles K2, K3, K4, K5	50 mg/m ³	Extractive sample	Twice a year Min interval between monitoring 2 months	BS EN 14791
	Oxides of Nitrogen		100 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14792
	Carbon Monoxide		150 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 15058

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref.	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
	Volatile Organic Compounds	and K6	50 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13649
A6 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Lead and compounds (as metal)	Lead melting operations	2 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 14385
	Total Particulate		5 mg/m ³	Extractive sample	Three per year Min interval between monitoring 2 months	BS EN 13284-1
	Sulphur Dioxide		500 mg/m ³	Monthly	Quarterly	BS EN 14791
	Oxides of Nitrogen		100 mg/m ³	Monthly	Quarterly	BS EN 14792
A7 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Particulates	Sodium Sulphate silo	No visible emission	-	-	Visible
A8 on drawing no.014 <i>Site Layout Drawing</i> 14/01/13	Particulates	Sodium Carbonate silo	No visible emission	-	-	Visible

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Ref. Period	Monitoring frequency	Monitoring standard or method
W1(WD2 on drawing S4.4122-23(a)) to Cwm Nant Melyn	Lead	Site surface water drainage from around process buildings and car parks via interceptor and storage tanks (1250m ³ capacity)	-	-	Weekly	BS 6068-2.29
	pH		-	-		BS ISO 10523
	Suspended solids		-	-		BS EN 872
	Oil and grease		-	-		SCA blue book 77
	Sulphate		-	-		SCA blue book 136

Table S3.3 Point source emissions to sewer and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Ref. period	Monitoring frequency	Monitoring standard or method
S1	Flow	Effluent treatment	350m ³ /day	Daily average	Continuous	Meter MCERTs
	Suspended solids	plant taking	400 mg/l	Weekly average	Monthly	BS EN 872
	Hydrocarbon oil	process waters from site	No visible staining	Daily samples	Random visual checks	SCA blue book 77
	pH max	process operations.	11	-	Continuous	BS ISO 10523
	pH min	Also foul	6			
	Sulphate	domestic sewage	2000 mg/l	Weekly average	Monthly	SCA blue book 136
	Antimony and its compounds (as Sb)	from amenity areas.	2.5 mg/l	Weekly average	Monthly	BS EN ISO 15586
	Arsenic and its compounds (as As)		2.5 mg/l	Weekly average	Monthly	BS EN ISO 11969
	Cadmium and its compounds (as Cd)		0.25 mg/l	Weekly average	Monthly	BS EN ISO 5961
	Copper and its compounds (as Cu)		12.5 mg/l	Weekly average	Monthly	BS 6068-2.29
	Lead and its compounds (as Pb)		5 mg/l	Weekly average	Monthly	BS EN ISO 15586
	Mercury and its compounds (as Hg)		0.125 mg/l	Weekly average	Monthly	BS EN 1483
	Nickel and its compounds (as Ni)		12.5 mg/l	Weekly average	Monthly	BS 6068-2.29
	Zinc and its compounds (as Zn)		12.5 mg/l	Weekly average	Monthly	BS 6068-2.29

Table S3.4 Ambient air monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Ambient air monitor located at Garnlydan School at 316600, 212400.	Particulate matter	Continuous. Reported as quarterly rolling average	BS 1747-1	Methodology as agreed with Natural Resources Wales
	Lead	Continuous. Reported as quarterly rolling average	BS 1747-1	Methodology as agreed with Natural Resources Wales

Schedule 4 - Reporting

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, A2, A3, A4, A5, A6	Every 12 months	12	1 January
Emissions to water Parameters as required by condition 3.5.1	W1	Every months	12	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every months	12	1 January
Ambient air monitoring Parameters as required by condition 3.5.1	DM1	Every months	12	1 January

Table S4.2: Annual production/treatment

Parameter	Units
Total amount of raw material received on site	tonnes
Amount of raw material sent for smelting	tonnes
Screened material sent for off-site disposal	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Battery recycling efficiencies	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Water	Form water 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY

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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment

To be notified Immediately	
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 permit condition

To be notified immediately	
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) In the event 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:	
To be notified immediately	
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 Natural Resources Wales 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.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 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 or background concentration limit..

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

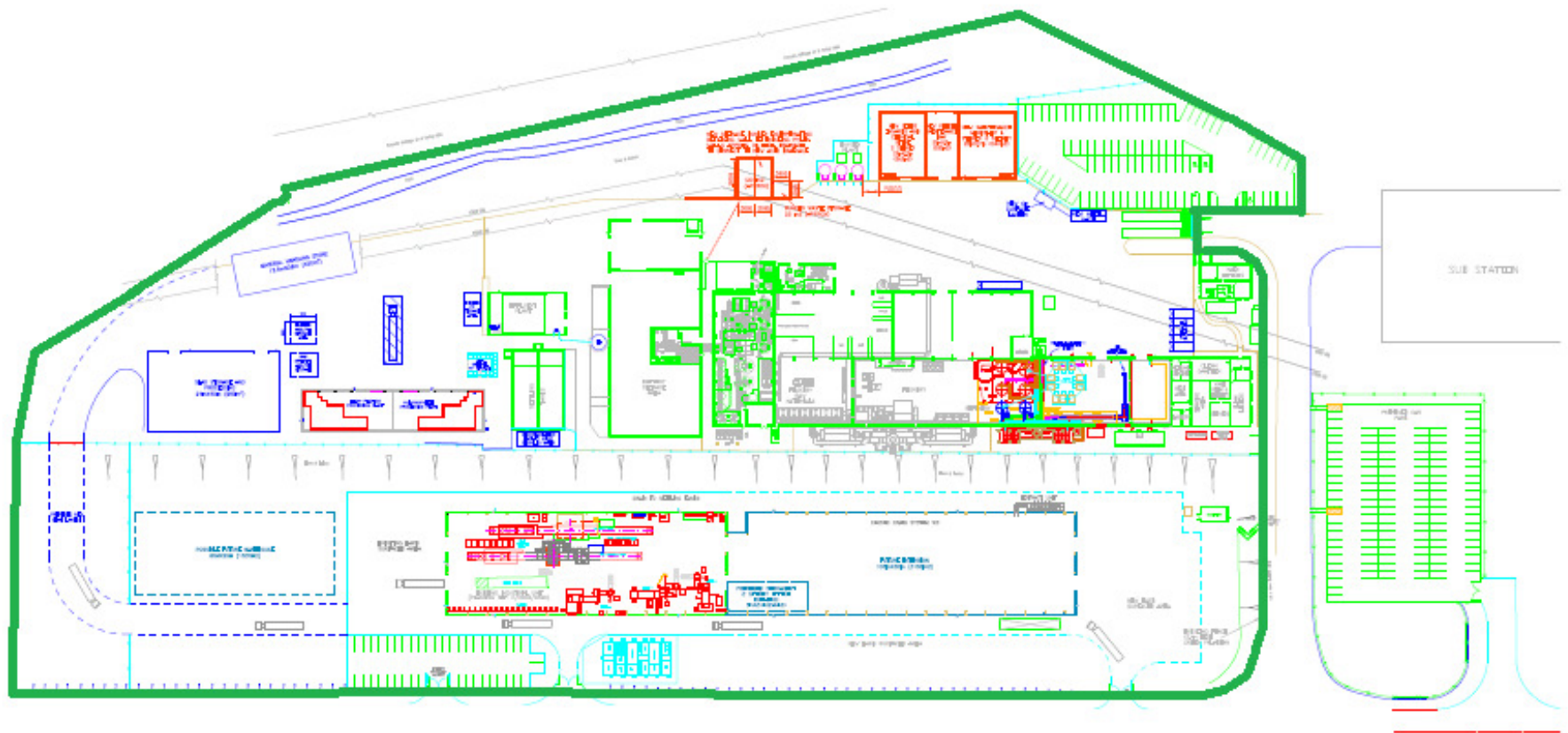
“year” means calendar year ending 31 December.

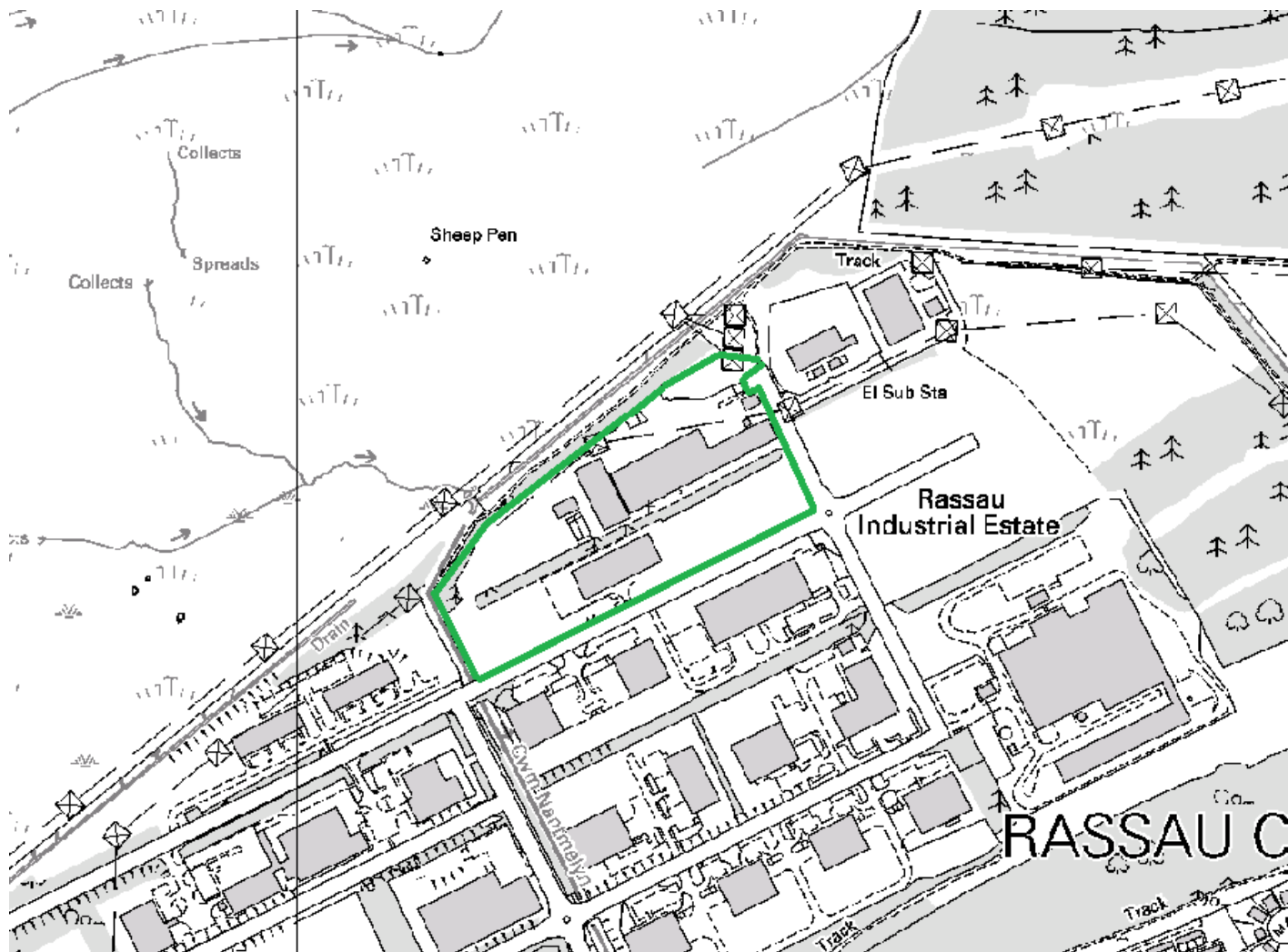
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- (a) 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
- (b) 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.

Schedule 7 - Site plan





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END OF PERMIT

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