

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

WasteCare Limited

Halifax Battery Treatment Plant
Unit 1-6 North Dean Business Park
Stainland Road
Halifax
HX4 8LR

Variation application number

EPR/VP3737QB/V002

Permit number

EPR/VP3737QB

Halifax Battery Treatment Plant

Permit number EPR/VP3737QB

Introductory note

This introductory note does not form a part of the notice

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

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

Changes introduced as part of the variation notice.

- An increase to the permitted storage capacity for both hazardous and non-hazardous batteries from 650 to 1,430 tonnes, stored by chemistry type pending either further mechanical treatment (non-hazardous portable batteries only) into components for recycling and recovery or despatch to a third-party treatment site
- Changes to the installation storage layout to reflect the new storage arrangements and capacity
- Change to the registered address of WasteCare Limited

The main features of the permit are as follows.

This bespoke permit will allow WasteCare Limited to operate a battery treatment facility under the following listed activities:

- Section 5.3, Part A(1)(a)(ii) – physico-chemical treatment of hazardous waste >10 tonnes per day – sorting and segregation of hazardous batteries and WEEE;
- Section 5.6, Part A(1)(a) temporary storage of hazardous waste >50 tonnes at any one time;

The activities also incorporate a non-hazardous waste treatment facility to treat non-hazardous batteries within the sorting plant as well as a hammer mill and DAAs for the physical treatment of WEEE, storage of waste including WEEE and storage of segregated waste products post treatment.

The installation is located on North Dean Business Park at SE 09578 22023.

The installation will sort hazardous and non-hazardous batteries from mixed battery and WEEE waste streams. This will be carried out via the mechanical sorting of mixed battery waste streams on a vibrating table screen, hand picking and manual treatment of the WEEE waste to remove batteries. The residual non-hazardous alkaline batteries will be then fed into the hammer mill, separating them into the black mass, plastic, paper and ferrous/non-ferrous metal fractions. Black mass is passed through an enclosed conveyor into sealed bags (See Table S1.4 Pre-operational measures for future development).

The site storage capacity is 1430 tonnes with a 25,000-tonne annual throughput. All treatment of battery wastes will be carried out within a building.

There are no point source emissions from the site. The site surfacing is impermeable and drains to a sump which is then tankered off site. An abatement system is in place on the battery treatment plant which will remove particulate matter and other relevant pollutants at key locations in the process to prevent emissions to air.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/VP3737QB/A001	Duly made 01/04/19	Application for a battery and WEEE treatment facility.
Response to Schedule 5 notice dated 23/05/19.	26/06/19	Updated BAT assessment and information regarding control of fugitive emissions and fire prevention measures.
Response to request for further information dated 09/07/19 and 17/07/19.	15/08/19	Information regarding control of fugitive emissions, waste storage arrangements, site drainage and fire prevention measures.
Response to request for further information dated 21/08/19.	16/09/19	Updated FPP and amenity risk assessment.
Response to request for further information dated 25/09/19.	25/10/19	Updated FPP and information regarding control of emissions.
Response to request for further information dated 01/11/19.	01/11/2019 and 04/11/2019	Design capacities and operating hours provided.
Response to Schedule 5 notice dated 06/11/19	05/12/2019	Updated FPP and details of extraction system.
Response to request for further information dated 15/01/20	31/01/2020 and 04/02/2020	Updated FPP, site plan, BAT arrangements and further information regarding extraction system.
Response to request for further information dated 06/02/20	13/02/2020	Information regarding BAT arrangements and fire prevention measures on site.
Response to request for further information dated 18/02/2020	09/03/2020 and 13/03/2020	Updated FPP, Operating techniques and details of extraction system.
Response to request for further information dated 16/03/20	01/04/2020 and 02/04/2020	ISO14401 certificate, updated FPP and operating techniques.
Response to request for further information dated 06/03/20	23/04/2020	Site plans updated to reflect how the site is intended to be operated after removal of wastes from historical permits on site.
Response to request for further information dated 04/05/20	06/05/2020	Details of extraction system provided.
Response to request for further information dated 17/06/20	02/07/2020	Updated site plans and confirmation of new installation boundary.
Response to request for further information dated 07/07/20	14/07/2020 and 26/08/2020	Updated site plan and FPP.
Response to request for further information dated 23/11/20	24/11/2020	Updated operating techniques.
Permit determined EPR/VP3737QB Billing reference: -Installation VP3737QB -Waste 405986	17/12/2020	Permit issued to WasteCare Limited.
Application received EPR/VP3737QB/V002	Duly made 16/04/2024	Application to increase storage capacity from 620 tonnes to 1,430 tonnes and change the registered address.
Additional information received	20/05/2024	Response to RFI issued 09/05/2024 Technical standards and FPP.
Additional information received	18/10/2024	Response to Schedule 5 Notice issued 23/08/2024

Status log of the permit		
Description	Date	Comments
		Technical standards and FPP.
Additional information received	08/11/2024	Response to RFI issued 30/10/2024 Updated FPP
Additional information received	28/11/2024	Updated Site Plan
Variation determined and consolidation issued EPR/VP3737QB	29/11/2024	Varied and consolidated permit issued to WasteCare Limited

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/VP3737QB

Issued to

Wastecare Limited (“the operator”)

whose registered office is

**Argent House Tyler Close
Normanton Industrial Estate
Normanton
England
WF6 1RL**

company registration number 01631444

to operate a regulated facility at

**Halifax Battery Treatment Plant
Unit 1-6 North Dean Business Park
Stainland Road
Halifax
HX4 8LR**

to the extent set out in the schedules.

The notice shall take effect from 29/11/2024.

Name	Date
Marcus Woodward	29/11/2024

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Table S1.2 - as referenced by conditions 2.3.1 and 2.3.2, is amended to include operating techniques and the Fire Prevention Plan submitted with the variation.
- Table S2.2 and Table S2.3 - as referenced by condition 2.3.5, is amended to reflect the increase in storage capacity from 650 tonnes to 1,430 tonnes.
- Schedule 7 – as referenced by condition 2.2.1, is amended to reflect changes to the site layout plan submitted with the variation.

The following conditions are added as a result of the application made by the operator.

- Condition 2.7 and Table 1.3 have been added to include the improvement conditions required as a result of the variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/VP3737QB

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/VP3737QB/V002 authorising,

Wastecare Limited (“the operator”),

whose registered office is

**Argent House Tyler Close
Normanton Industrial Estate
Normanton
England
WF6 1RL**

company registration number 1631444

to operate an installation and waste operation at

**Halifax Battery Treatment Plant
Unit 1-6 North Dean Business Park
Stainland Road
Halifax
HX4 8LR**

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

Name	Date
Marcus Woodward	29/11/2024

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

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

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1, AR1 to AR4, 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 AR4, 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 AR4, 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 All activities shall take place on impermeable surfaces with sealed drainage, unless otherwise specified in Table S1.1 or agreed in writing with the Environment Agency.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.2 and S2.3; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous properties associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Waste battery and accumulator treatment

- 2.4.1 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.

2.5 Hazardous waste storage and treatment

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

2.6 WEEE storage

- 2.6.1 Spillage collection facilities and, where appropriate, decanters and cleanser-degreasers shall be provided and used as necessary.
- 2.6.2 WEEE shall be stored in areas provided with a weatherproof covering where appropriate or in containers providing a weatherproof covering where appropriate.

2.7 Improvement programme

- 2.7.1 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.
- 2.7.2 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.

2.8 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions of substances not controlled by emission limits

- 3.1.1 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.
- 3.1.2 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.
- 3.1.3 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.

3.2 Odour

3.2.1 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.

3.2.2 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.

3.3 Noise and vibration

3.3.1 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.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to 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.

3.4 Monitoring

3.4.1 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) process monitoring specified in table S3.1.

3.4.2 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.

3.4.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.4.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.4.4 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.

3.5 Fire prevention

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

4 Information

4.1 Records

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

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

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

4.2 Reporting

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

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

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

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

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

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

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

4.3 Notifications

- 4.3.1 For the following activities referenced in schedule 1, table S1.1, AR1 to AR4, 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 (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 For the following activities referenced in schedule 1, table S1.1, AR5, the Environment Agency shall be notified without delay following the detection of:
- (a) 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;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.4 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.
- 4.3.5 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.
- 4.3.6 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.

4.3.7 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.

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

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

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

4.4 Interpretation

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

4.4.2 For the following activities referenced in schedule 1, table S1.1, AR1 to AR4, 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.

4.4.3 For the following activities referenced in schedule 1, table S1.1, AR5, 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 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 Sorting of hazardous batteries	Section 5.3, Part A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	<p>R3: Recycling/ reclamation of organic substances which are not used as solvents.</p> <p>R4: Recycling/ reclamation of metals and metal compounds.</p> <p>R5: Recycling/reclamation of other inorganic materials.</p>	<p>From receipt of hazardous waste batteries to mechanical treatment consisting of sorting, separating, grading and screening and the collection of processed waste components for further processing.</p> <p>Activity AR1 shall not exceed 100 tonnes per day.</p> <p>Activities shall take place within a building on an impermeable surface with sealed drainage.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>
AR2 Storage of hazardous batteries and WEEE	Section 5.6, Part A(1)(a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3.	<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced).</p>	<p>Storage of hazardous batteries and WEEE.</p> <p>Activities shall take place on an impermeable surface with sealed drainage.</p> <p>Wet lead acid batteries shall be stored in containers with an impermeable, acid resistant base.</p> <p>Storage of waste includes the storage of the waste materials produced by the permitted activities on site. The total storage of waste on site shall not exceed 1430 tonnes.</p> <p>Hazardous waste types suitable for acceptance are limited to those specified in Tables S2.2.</p> <p>All hazardous waste storage pending treatment shall not exceed 6 months, without prior written approval from the Environment Agency.</p>
Directly Associated Activity			
AR3	Physical treatment of WEEE waste for the purpose of recycling.	R4: Recycling/reclamation of metals and metal compounds.	From acceptance of WEEE waste for removal of

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
		R5: Recycling/reclamation of other inorganic materials.	batteries only to despatch of WEEE. No dismantling of WEEE for further recovery or disposal shall take place under this activity. Waste types suitable for acceptance are limited to those specified in 7 Table S2.2 and S2.3.
AR4	Storage of waste, excluding temporary storage of hazardous waste under Section 5.6, Part A(1)(a).	R13: Storage of waste pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	From receipt of waste to treatment. Storage of waste includes the storage of the waste materials produced by the permitted activities on site. The total storage of waste on site shall not exceed 1430 tonnes. Waste types suitable for acceptance are limited to those specified in Table S2.3. Subject to any other requirements of this permit wastes shall be stored for no longer than 6 months prior to recovery.
Activity reference	Description of activities for waste operations	Limits of activities	
AR5 Physical 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). R4: Recycling/ reclamation of metals and metal compounds. R5: Recycling/reclamation of other inorganic materials.	Treatment operations shall be limited to: <ul style="list-style-type: none"> • Treatment consisting only of sorting, separation, grading and shredding (hammer mill) of non- hazardous waste into different components for recovery. • Treatment in the hammer mill is limited to non-hazardous portable batteries based on Zinc/Manganese chemistry with potassium hydroxide as the electrolyte (alkaline batteries under waste code 16 06 04) or with ammonium chloride or zinc chloride as the electrolyte (batteries under waste code 16 06 05). • Treatment of non-hazardous waste for recovery shall consist of no more than 75 tonnes per day. Storage of waste includes the storage of the waste materials produced by the permitted activities on site. The total	

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
			<p>storage of waste on site shall not exceed 1430 tonnes.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p> <p>Subject to any other requirements of this permit wastes shall be stored for no longer than 6 months prior to recovery.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/VP3737QB/A001	Documents provided in response to section 3a – technical standards of form B3.	Duly made 01/04/2019
Additional information provided in response to request for further information dated 07/07/2020	Approved Fire Prevention Plan referenced as FIRE PREVENTION PLAN - HALIFAX (FPPHA) Dated 26.08.20 HK v14.	26/08/2020
Additional information provided in response to request for further information dated 23/11/2020	Operational techniques document referenced as WasteCare Ltd, Battery Treatment Facility, Halifax OPERATING TECHNIQUES, November 2020, Document Date: 24/11/20. v14.	24/11/2020
Application EPR/VP3737QB/V002	Sections 3b, 3d,5a and 5e in C2 of the application – Operating techniques and Site plans Section 3a Table 3 in C3 of the application - Technical standards	06/07/2023
Response to Schedule 5 Notice issued 23/08/2024	Response to question 1-5 to Table 3 in C3 of the application- Technical standards BAT Assessment - HxBAT.v2.	18/10/2024
Response to RFI issued 30/10/2024	Additional information to 5e in C2 of the application – Compliance with Fire Prevention Plans – FPPHA V17 Nov 2024	08/11/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1 Stock management tracking measures	<p>The operator shall submit for information a written and updated stock control management system plan.</p> <p>The plan shall include:</p> <ul style="list-style-type: none"> • Evidence of improvements to ensure appropriate stock rotation, tracking and inventory for all stored waste • Evidence of improvements supporting a First in First out (FIFO) policy • Evidence that the works comply with Waste electrical and electronic equipment: appropriate measures for permitted 	Issue Date + 3 months

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	facilities, dated 13 July 2022, Chemical waste; appropriate measures for permitted facilities, dated 18 November 2020 and Best Available Techniques (BAT) conclusions for waste treatment 2010/75/EU.	
IC2 Installation surfacing improvements to the unmade ground	<p>The operator shall submit a written report to the Environment Agency for assessment and written approval.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> Evidence all operational areas have impermeable surfaces at the installation, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) or equivalent approved standard Evidence that the works comply with Waste electrical and electronic equipment: appropriate measures for permitted facilities, dated 13 July 2022, Chemical waste; appropriate measures for permitted facilities, dated 18 November 2020 and Best Available Techniques (BAT) conclusions for waste treatment 2010/75/EU. 	Issue Date + 3 months

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Treatment of batteries within the hammer mill in accordance with a commissioning plan approved by the Environment Agency.	<p>Prior to the commencement of the commissioning of treatment activities within the hammer mill, the operator shall submit a written commissioning plan, for approval by the Environment Agency along with a timeline for its completion. The commissioning plan shall include any expected emissions to the environment during the different stages of commissioning, the expected duration of commissioning activities as well as the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expectations. Commissioning shall be carried out in accordance with the commissioning plan as approved in writing by the Environment Agency.</p> <p>The commissioning plan shall include, but not be limited to:</p> <ol style="list-style-type: none"> proposals to undertake representative monitoring of the air quality within the extraction system before and after treatment including the monitoring locations, methods, parameters and frequency should comply with MCERTS standards, as detailed on the .gov.uk website, a shortcut to which is www.mcerts.net; proposals to undertake representative, and consistently repeatable monitoring of the ambient air including the monitoring locations, methods, parameters and frequency; proposals to show how emissions to the environment will be prevented and controlled during the commissioning period; a description of how the operator will determine what changes, if any, will be made to the treatment process or abatement (such as re-balancing), and how such changes should be carried out during the commissioning process and during ongoing operations, in order to maintain the system's design

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		<p>performance and prevent diffuse emissions in line with BAT;</p> <p>e) confirmation that a written report will be submitted to the Environment Agency for approval that includes:</p> <ol style="list-style-type: none"> i. the results of the assessment to ascertain the efficiency of the abatement process based on the parameters monitored in (a) above; ii. a comparison of parameters monitored in (b) above with relevant ambient work place air quality requirements; and iii. details of equipment, procedures and techniques applied in order to prevent diffuse emissions in line with BAT. <p>The operator shall submit the commissioning plan to the Environment Agency with at least fourteen days' notice before the operation of the hammer mill during commissioning.</p> <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p> <p>The Environment Agency must be notified immediately if any emissions are detected during the commissioning of the installation that are different to or exceed the expected emissions to the environment detailed in the agreed commissioning plan.</p>
PO2	Treatment of batteries within the hammer mill (AR5)	The operator shall obtain written approval from the environment agency for the report submitted in accordance with PO1 e) above.
PO3	Treatment of batteries within the hammer mill in accordance with a commissioning plan approved by the Environment Agency.	<p>Prior to the commencement of the commissioning of treatment activities within the hammer mill, the operator shall submit a written report, for approval by the Environment Agency which demonstrates that the site has impermeable surfacing and sealed drainage system(s) in place which are suitable to contain potentially contaminated site drainage waters, spillages of chemicals and emergency firewater, including surges in firewater during firefighting, and are suitable to prevent such contamination from reaching non-impermeable areas on site. The report should make reference to the standards set out in SGN5.06 under sections 2.8, 2.1.3 and 2.2.5 relating to the use of impervious surfacing and sealed drainage to contain leaks, spills and emergency firewater.</p> <p>The report and the site survey required to compile it should be undertaken by a suitably qualified person and include any recommendations to further minimise the risk of pollution from potentially contaminated site drainage waters, spillages of chemicals and emergency firewater, including surges in firewater during firefighting. The report should include a description of the condition of surfacing, gradients, slopes, curbing, bunds, sumps and drainage around all areas of the permitted site, and an assessment of the capability of these features to contain potentially contaminated site drainage waters, spillages of chemicals and emergency firewater, including surges in firewater during firefighting. A drawing showing the direction of flow of surface water on all areas of the permitted site must be included.</p> <p>The report should compare the assessment of the capability of these features to contain firewater and the likely direction</p>

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		of flow of firewater, to that contained in the document dated 26.08.20 HK v14 (or most recent version) as referenced in Table S1.2 of the permit, using the volumes and rates of firewater application supply as set out in table 11.1 of that document.
PO4	Treatment of batteries within the hammer mill in accordance with a commissioning plan approved by the Environment Agency.	Prior to the treatment of batteries in the hammer mill during commissioning of the installation, the operator shall submit a written report, for approval by the Environment Agency which demonstrates that the operator has applied to surrender the standard rules permits within the site boundary of this installation permit.

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 AR1-AR4 physical treatment of Waste Electrical and Electronic Equipment and batteries.	
Maximum Quantities	The annual throughput of all combined activities shall not exceed 25,000 tonnes. Storage of waste includes the storage of the waste materials produced by the permitted activities on site. The total storage of waste on site shall not exceed 1430 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Containing ozone-depleting substances • Wastes that are in a form which is either sludge or liquid
Waste Code	Description
16	Wastes not otherwise specified in the list
16 02	wastes from electrical and electronic equipment
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	hazardous components removed from discarded equipment
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	mercury-containing batteries
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 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
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 21*	fluorescent tubes and other mercury-containing waste
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components

Table S2.3 Permitted Waste types and quantities for AR5 non-hazardous battery treatment facility.	
Maximum Quantities	The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year. Storage of waste includes the storage of the waste materials produced by the permitted activities on site. The total storage of waste on site shall not exceed 1430 tonnes.
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Containing ozone-depleting substances • Wastes that are in a form which is either sludge or liquid
Waste Code	Description
16	Wastes not otherwise specified in the list
16 02	wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other 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 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
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 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

Schedule 3 – Emissions and monitoring

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Outlet from the hammer mill within the treatment plant located in unit 2 as shown on site plan in schedule 7.	Temperature	Continuous	Temperature probe	--
Inlet and outlet gas streams of air extraction and abatement system SP1 as shown on site plan in schedule 7.	Ammonia	Quarterly	In accordance with BS EN ISO 21877 or as agreed in writing with the Environment Agency.	The quarterly monitoring of metals, ammonia and particulates will be carried out in accordance with MCERTS standards. The abatement of emissions must be managed as agreed in the operational techniques and to the manufacturer's recommendations. Carbon filter(s) to be replaced in accordance with manufacturer's recommendations.
	Particulate matter	Quarterly	In accordance with BS EN 13284-1 or as agreed in writing with the Environment Agency.	
	Metals (including but not limited to Zinc, Manganese, Lead and Mercury)	Quarterly	In accordance with BS EN 14385 or as agreed in writing with the Environment Agency.	

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
Process monitoring Parameters as required by condition 3.4.1	As agreed in writing by the Environment Agency.	Quarterly or as agreed in writing by the Environment Agency.	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Batteries sorted	tonnes
Batteries treated in hammer mill	tonnes
WEEE processed	tonnes
Non-hazardous ferrous metal fraction recovered	tonnes
Hazardous ferrous metal fraction recovered	tonnes
Non-hazardous non-ferrous metal fraction recovered	tonnes
Hazardous non-ferrous metal fraction recovered	tonnes
Non-hazardous paper/plastic fraction recovered	tonnes
Hazardous paper/plastic fraction recovered	tonnes
Black mass recovered	tonnes

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

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	17/12/2020
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	17/12/2020
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	17/12/2020
Process monitoring requirements	Electronic format as agreed in writing by the Environment Agency	--
Waste returns	E-waste returns	--

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

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

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

“emissions to land” includes emissions to groundwater.

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

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

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

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

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

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

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

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

“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.

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

“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.

“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 (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

“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.

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

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

Where the following terms appear in the waste code list in Table S2.2 and S2.3 they have the meaning given below.

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

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

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

Article 2(a) says that ‘PCBs’ means:

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

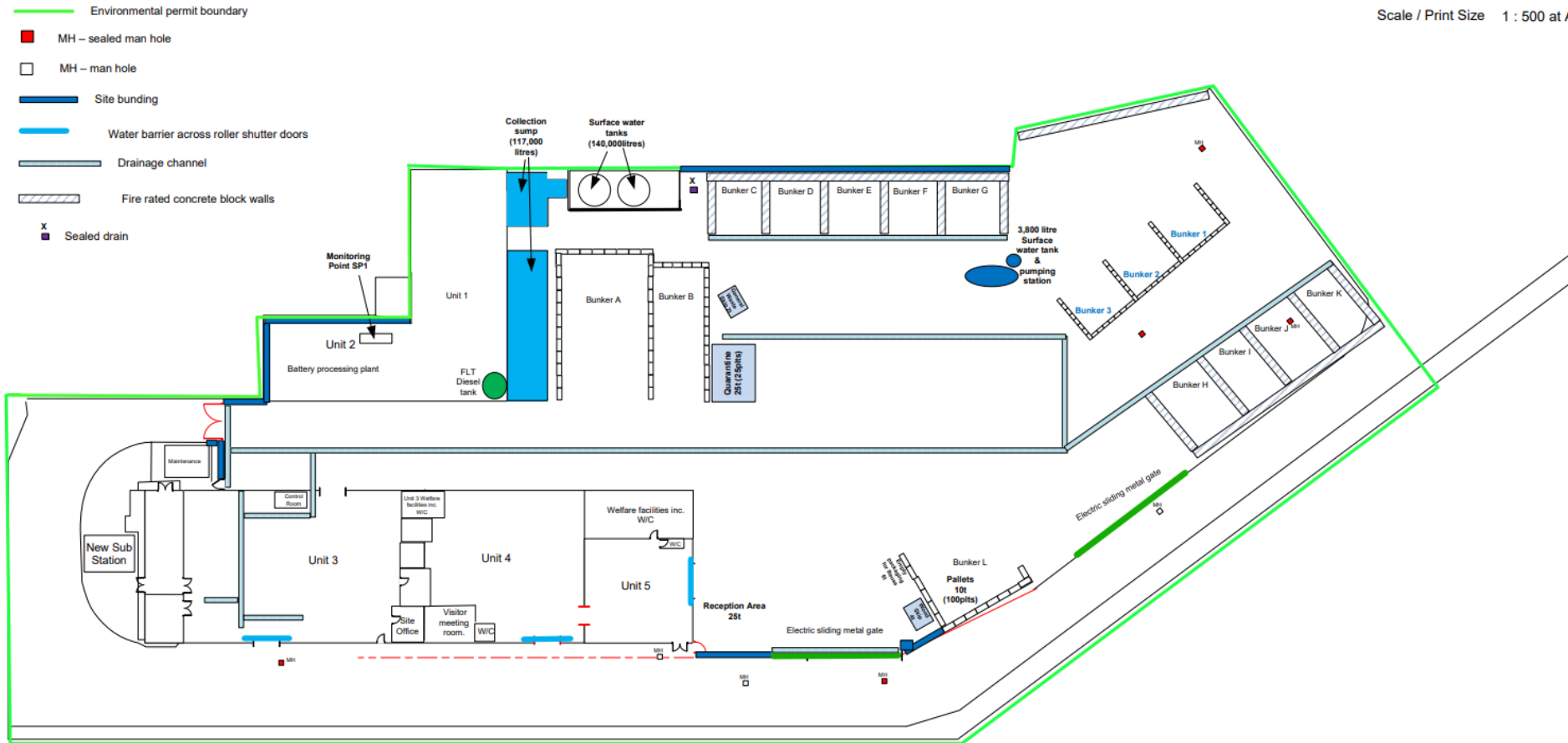
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

Schedule 7 – Site plan



Site layout for Halifax Battery Treatment Facility

Units 1-6 North Dean Business Park
 Stainland Road
 Halifax
 HX4 8LR
 Drawn By : Helen Kellett
 Date : 11th October 2024
 Document ID : HXSP1
 Rev: 18a
 Scale / Print Size 1 : 500 at A3



END OF PERMIT

Permit Number:		Operator:	
Facility:		Form Number:	WaterUsage1 / DD/MM/YY

Reporting of Water Usage for the year

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

Operator's comments:

Signed

Date.....

(authorised to sign as representative of Operator)

Permit Number:		Operator:	
Facility:		Form Number:	
			Energy1 / DD/MM/YY

Reporting of Energy Usage for the year

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

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number:		Operator:	
Facility:		Form Number:	Performance1 / DD/MM/YY

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

Parameter	Units
Total raw material used	tonnes
CHP engine usage	hours
CHP engine efficiency	%
Biogas usage	tonnes or m ³
Auxiliary boiler usage	hours
Emergency flare operation	hours
Electricity exported	MWh

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)

Permit Number:		Operator:	
Facility:		Form Number:	Process1 / DD/MM/YY

Reporting of process monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Process monitoring of digestion stability					
Digester feed	pH				
	Alkalinity				
	Temperature				
	Hydraulic loading rate				
	Organic loading rate				
	Volatile fatty acids concentration				
	Ammonia				
	Liquid/foam level				
Digestate (Other monitoring)					

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Digestate batch	Volatile fatty acids concentration				
	Ammonia				
Monitoring of biogas produced					
Biogas in digester	Flow				
	Methane				
	CO ₂				
	O ₂				
	Hydrogen sulphide				
	Pressure				
Tank structural integrity					
Digester and storage structural stability	Integrity checks				
Digester tanks (Other monitoring)					
Digester tank	Agitation /mixing				
	Tank capacity and sediment assessment				
Site odour monitoring					
Waste reception building or area; Digester(s) and storage tank(s)	Odour olfactory monitoring				
Odour abatement plant					

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
	Temperature				
	Moisture				
	Thatching compaction (biofilters only)				
	Efficiency assessment				
	Gas flow				
	Ammonia				
	Odour concentration				
	pH (inlet) Wet scrubbing systems only				
pH (outlet) Wet scrubbing systems only					
Monitoring of diffuse emissions					
Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme	VOCs including methane				
Monitoring of CHP engine stack(s)					
CHP engine 1	VOCs including methane				
	Exhaust gas temperature				
	Exhaust gas pressure				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
	Exhaust gas water vapour content				
	Exhaust gas oxygen				
	Exhaust gas flow				
	Total annual VOCs emissions (calculated)				
Meteorological conditions					
Wind speed					
Wind direction					
Air temperature					
Emergency flare operation					
Date of operation					
Time of operation					
Duration of operation					
Annual operational hours					
Pressure relief valve operation					
Date of release	Biogas release				
Time of release					
Duration of release					
Annual mass release					
Storage lagoons and storage tank volume (for digestate and leachate storage)					
Daily volume check	Volume				

Emission Point	Substance / Parameter	Trigger Value /Threshold Value /Industry Standard	Result /Reading [1]	Test Method [2]	Monitoring Date and Time
Storage tank volume (Digesters /Feedstock tanks / Other tanks)					
Daily volume check	Volume				
Composting batch – stockpiles and processing material					
Stockpiles and processing material	Temperature				
	Fly infestation or pupa formation				
Monitoring of composting batch					
Representative internal core for each composting batch during sanitisation stage	Temperature				
	Moisture				
	C:N ratio				
Representative internal core for each composting batch during stabilisation stage	Temperature				
	Moisture				
Representative internal core for each composting batch during further maturation stage	Temperature				
	Moisture				
Internal core for oversize storage piles	Temperature				

1. Monitoring results can be submitted to the Environment Agency in an electronic format or in other format as agreed in writing by the Environment Agency.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

Signed

Date.....

(Authorised to sign as representative of Operator)