

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Lincoln Storm Ltd.

Worle Quarry
Lower Kewstoke Road
Worle
Weston-Super-Mare
BS22 9LF

Variation application number

EPR/KB3002CW/V005

Permit number

EPR/KB3002CW

Lincoln Storm Ltd

Permit number EPR/KB3002CW

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.

This variation is to

- Allow for the treatment of lithium-ion batteries and other similar wastes from the manufacture of lithium-ion batteries and the production of Storm Black TM (a 'black mass' waste product); and,
- the storage of waste lithium-ion batteries and lithium-ion battery materials,
- Add a number of additional EWC codes to include all forms of lithium-ion battery material and removal of existing EWC codes to streamline the risk profile,
- Increase and amend the permitted area to include a greater proportion of Worle Quarry, to allow more distributed storage of lithium-ion battery material in structures specifically designed for that purpose (including fire detection, fire suppression and containment).
- Add the schedule 1 listed activities to allow the treatment and processing of lithium batteries and lithium battery manufacturing wastes - S5.3 Part A (1) (a) ii Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment; and
- Add the schedule 1 listed activity - S5.6 Part A (1) (a) Temporary storage of hazardous waste with a capacity exceeding 50 tonnes.

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Permit determined EPR/BB3139RA	02/12/2011	Permit issued for transfer station taking non-biodegradable waste.
Variation determined EPR/BB3139RA	25/07/2014	Permit varied to add depollution of end -of-life vehicles, add hazardous waste codes and increase site boundary.
Application EPR/KB3002CW/T001 (full transfer of permit EPR/BB3139RA)	Duly made 03/05/2022	Application to transfer the permit in full to Lincoln Storm Ltd.
Transfer and Environment Agency variation determined EPR/KB3002CW	02/11/2022	Full transfer and Environment Agency initiated variation of permit complete.
Variation application submitted	14/11/2022	

EPR/KB3002CW/V003		
Variation application returned	01/02/2023	Application returned as incomplete.
Variation application submitted EPR/KB3002CW/V004	08/08/2023	
Additional information received	30/10/2323	
Variation application returned EPR/KB3002CW/V003	17/11/2023	Application returned as not duly made.
Variation application submitted EPR/KB3002CW/V005	11/12/2023	
Additional information submitted following site visit/meeting.	14/05/2024	Full re-submission of application documents to make it clear regarding the proposed activities.
Additional info submitted following meeting	15/07/2024	Revised list of EWC codes
Variation application determined EPR/KB3002CW/V005	23/07/2024	

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/KB3002CW

Issued to

Lincoln Storm Ltd (“the operator”)

whose registered office is

Worle Quarry
Lower Kewstoke Road
Worle
Weston-Super-Mare
BS22 9LF

company registration number 13780413

to operate regulated facilities at

Worle Quarry
Lower Kewstoke Road
Worle
Weston-Super-Mare
BS22 9LF

to the extent set out in the schedules.

The notice shall take effect from 23/07/2024

Name	Date
Matthew Allen	23/07/2024

Authorised on behalf of the Environment Agency

Schedule 1

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

Delete all conditions from the permit and subsequent variations and replace with those conditions referenced in Schedule 2 below and attached to this notice.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/KB3002CW

This is the consolidated permit referred to in the variation and consolidation notice for application

EPR/KB3002CW/V005

authorising,

Lincoln Storm Ltd. (“the operator”),

whose registered office is

Worle Quarry
Lower Kewstoke Road
Worle
Weston-Super-Mare
BS22 9LF

company registration number 13780413

to operate an installation and waste operations at

Worle Quarry
Lower Kewstoke Road
Worle
Weston-Super-Mare
BS22 9LF

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

Name	Date
Matthew Allen	23/07/2024

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 or other approval issued by the Environment Agency.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR11) 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 AR11) 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 AR13) 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 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.
- 2.3.4 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.
- 2.3.6 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

Waste battery and accumulator treatment

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

Hazardous waste storage and treatment

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

2.4 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 the Environment Agency.
- 2.4.2 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.

2.5 Pre-operational conditions

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

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 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.

3.4.3 Emissions from the metal shredder shall be free from sudden noise or vibration at levels likely to cause pollution outside the site, unless the operator has used appropriate measures, including but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the sudden noise and vibration.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in table S3.1, S3.2 and S3.3.
- (b) process monitoring specified in table S3.4.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

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

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.6.2 The operator shall:

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

3.7 Fire prevention

3.7.1 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR13) a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

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

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

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

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

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

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 In the event:

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

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

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

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

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and

- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

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

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

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

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

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

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference - description	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 – Treatment of hazardous wastes (Solid/water separation)	S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	Treatment of more than 10 tonnes of hazardous wastes a day for the purpose of recovery. Separation of solid hazardous waste and aqueous liquid following wet shredding under activity AR7 R4 Recycling/reclamation of metals and metal compounds	Treatment consisting only of the separation of solid hazardous waste and aqueous liquid using dewatering screen and conveyor for further recovery of the hazardous waste on site. All treatment activities shall be carried out at all times using water to prevent risk of fires or explosions. Treatment shall only take place within the processing buildings on impermeable surface with sealed drainage as shown on drawing entitled 'Site Layout' ref: 020.1_09_010. These buildings must be always fitted with the appropriate fire detection and control measures. Waste types are limited to the waste output from activity AR7 only with a maximum of 90 tonnes per day treated.
AR2 – Treatment of hazardous wastes (Drying of hazardous wastes)	S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	Treatment of more than 10 tonnes of hazardous wastes a day for the purpose of recovery. Drying of hazardous waste for onward recovery of hazardous materials generated by AR1. R4 Recycling/reclamation of metals and metal compounds	Treatment consisting only of drying of hazardous waste for further recovery of the hazardous waste on site. All treatment activities shall use a rotary drier to a maximum temperature of 250°C. All air emissions shall be directed to the appropriate abatement controls, including the use bag filter and a gas scrubber. Treatment shall only take place within the processing buildings on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010. These buildings must be always fitted with the appropriate fire detection and control measures. Waste types are limited to the waste output from activity AR1.

Table S1.1 activities			
Activity reference - description	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
AR3 – Treatment of hazardous wastes (physical treatment of hazardous to recover recyclables and black mass)	S5.3 A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	<p>Treatment of more than 10 tonnes of hazardous wastes a day for the purpose of recovery.</p> <p>Shredding, sieving and separating for onward recovery of hazardous materials generated by activity AR2 (Drying) and additional dry wastes from the Li battery manufacturing processes.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents</p> <p>R4 Recycling/reclamation of metals and metal compounds</p> <p>R5: Recycling/reclamation of other inorganic materials</p>	<p>Treatment consisting only of mechanical shredding, sorting, separation, and sieving of hazardous waste into different components for recovery.</p> <p>Treatment shall only take place within the processing buildings on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010. These buildings must be always fitted with the appropriate fire detection and control measures.</p> <p>Subject to any other requirements of this permit wastes shall be stored for no longer than 6 months prior to recovery.</p> <p>Treatment for recovery shall be no more than 90 tonnes per day in total for activities AR3 and AR13.</p> <p>All air emissions shall be directed to the appropriate abatement controls, including the use bag filter and a carbon filter.</p> <p>Waste types are limited to the waste output from activity AR2, and those hazardous wastes associated with lithium battery production and processing as detailed in table S2.2.</p>
AR4 – Hazardous waste storage (Hazardous Battery waste pending treatment in activity AR3)	S5.6 A(1)(a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3	<p>Temporary storage of more than 50 tonnes of hazardous waste pending recovery.</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage pending collection, on the site where it is produced).</p>	<p>Storage of hazardous waste pending treatment on-site.</p> <p>No waste shall be stored for longer than 6 months.</p> <p>Storage must take place within tent 3 only on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010. This building must be always fitted with the appropriate fire detection and control measures.</p> <p>The maximum storage of waste within tent 3 shall not exceed 120m³.</p> <p>Waste types are limited to those waste as detailed in table S2.2, pending</p>

Table S1.1 activities			
Activity reference - description	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
			treatment through activities AR7 and/or AR3.
AR5 – Hazardous waste transfer station	S5.6 A(1)(a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes pending any of the activities listed in Section 5.1, 5.2 and 5.3	<p>Temporary storage of more than 50 tonnes of hazardous waste pending disposal or recovery.</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage pending collection, on the site where it is produced).</p>	<p>Storage of hazardous waste pending transfer for treatment off site.</p> <p>No waste shall be stored for longer than 6 months.</p> <p>Storage must take place within storage tent 4, and tent 5 once approved in accordance with pre-operational condition 3, on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010. Both storage tents must be always fitted with the appropriate fire detection and control measures.</p> <p>All batteries shall be stored in either appropriate weatherproof containers, or in appropriate containers within a building on an impermeable surface with a sealed drainage system.</p> <p>Lead acid batteries shall be stored upright with terminals taped off or capped in acid proof containers to prevent leaks and short circuits.</p> <p>Nickel metal hydride (Ni-MH) batteries shall be stored in a way that will prevent them being damaged.</p> <p>Waste types restricted to the hazardous wastes listed in table S2.3.</p>
Directly Associated Activity			
AR6	Storage of Lithium Batteries prior to onsite treatment.	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage pending collection, on the site where it is produced)	<p>From receipt of non-hazardous lithium batteries to storage prior to onsite treatment.</p> <p>Lithium batteries shall be stored within tent 3 on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010. This building must be always fitted with the</p>

Table S1.1 activities			
Activity reference - description	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>appropriate fire detection and control measures.</p> <p>No waste shall be stored for longer than 6 months.</p> <p>All batteries shall be stored in either appropriate weatherproof containers, or in appropriate containers within a building on an impermeable surface with a sealed drainage system.</p> <p>Li-ion batteries from electric vehicles shall be stored separately from other batteries.</p> <p>Li-ion batteries shall be stored to prevent them from:</p> <ul style="list-style-type: none"> •coming into contact with any liquids •being damaged or shorting •being exposed to high temperatures <p>The maximum storage of waste within tent 3 shall not exceed 120 m3.</p> <p>Batteries of different types and chemistry shall be stored separately.</p> <p>Waste types are limited to lithium batteries only as specified in Table S2.2.</p>
AR7	Shredding of Lithium Batteries	R4 Recycling/reclamation of metals and metal compounds	<p>Treatment consisting only of shredding of non-hazardous lithium batteries only for further recovery on site.</p> <p>All treatment activities shall be carried out at all times using water to prevent any risk of fires or explosions.</p> <p>Treatment for recovery shall be no more than 90 tonnes per day.</p> <p>Treatment shall only take place within the processing buildings on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010.</p> <p>Waste types are limited to lithium batteries only as specified in Table S2.2.</p>

Table S1.1 activities			
Activity reference - description	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
AR8	Raw materials handling and storage	Handling and storage of raw materials, including fuel and chemicals.	<p>Receipt and storage of any raw materials directly associated with the permitted activities on site.</p> <p>All liquid raw materials shall be stored in sealed containers within bunded areas.</p>
AR9	Storage and use of water as part of the wet shredding activity (AR7)	Storage, handling of process water for the wet shredding process.	Storage of wash water in 'dirty water tank' and passing through cyclone and sieving system and storage in 'clean water tank' prior to reuse or tankering offsite of spent wash water.
AR10	Storage of residual waste produced as part of the on-site treatment of Lithium Batteries.	Handling and storage of residual waste from the Lithium battery shredding and treatment sorting activity.	<p>From the production of the residual waste to the storage of such waste prior to the removal off site for treatment or disposal elsewhere.</p> <p>Storage of residual black mass must be within suitable containers within the dedicated storage tent (Tent no.1) as shown on drawing 'Site Layout' ref: 020.1_09_010. This building must be always fitted with the appropriate fire detection and control measures.</p> <p>All other residual wastes shall be stored within appropriate containers within the dedicated storage tent (Tent no.2) as shown on drawing 'Site Layout' ref: 020.1_09_010. This building must be always fitted with the appropriate fire detection and control measures.</p> <p>No waste shall be stored for longer than 6 months.</p>
AR11	Management and storage of rainwater falling on the site	Discharge and stored in a sealed tank prior to discharge to soakaway or removed off-site for disposal/treatment elsewhere.	<p>Site drainage to be discharged and stored in a sealed tank prior to being removed off-site by tanker for treatment/disposal elsewhere or discharged to soakaway if proven to be clean and uncontaminated.</p> <p>Only clean water which has been tested to confirm that no contamination is present shall be discharged to soakaway.</p>
Table S1.1 activities			

Table S1.1 activities			
Activity reference - description	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
Activity reference	Description of activities for waste operations		Limits of activities
AR12- Non-hazardous waste transfer station	<p>Storage of non-hazardous waste before transfer off site.</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage pending collection, on the site where it is produced).</p>		<p>From receipt and temporary storage of non-hazardous wastes before transfer off site for recovery.</p> <p>Storage of non-hazardous waste shall be within storage tent 4, and tent 5 once approved in accordance with pre-operational condition 3, on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010.</p> <p>All batteries shall be stored in either appropriate weatherproof containers, or in appropriate containers within a building on an impermeable surface with a sealed drainage system.</p> <p>No waste shall be stored for longer than 6 months.</p> <p>Waste types and quantity restricted to the non-hazardous wastes listed in table S2.3</p>
AR13 – Non-hazardous treatment operation	<p>Storage and treatment of non-hazardous wastes for the purpose of recovery.</p> <p>Shredding, sieving and separating for onward recovery of non-hazardous materials generated from dry non-hazardous wastes from the Li battery manufacturing processes.</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage pending collection, on the site where it is produced).</p> <p>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>Treatment consisting only of mechanical shredding, sorting, separation, and sieving of non-hazardous waste into different components for recovery.</p> <p>Treatment shall only take place within the dry processing building on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010.</p> <p>Treatment for recovery shall be no more than 90 tonnes per day in total for activities AR3 and AR13.</p> <p>Subject to any other requirements of this permit wastes shall be stored for no longer than 6 months prior to recovery.</p> <p>Wastes shall be stored within tent 3 on impermeable surface with sealed drainage as shown on drawing 'Site Layout' ref: 020.1_09_010.</p> <p>The maximum storage of waste within tent 3 shall not exceed 120m³.</p> <p>Waste types and quantity restricted to the non-hazardous wastes listed in table S2.2.</p>

Table S1.2 Operating techniques		
Description	Parts	Date Received
Variation Application EPR/KB3002CW/V005	Application forms C2 and C3 and referenced supporting information	Duly made 12/03/24 Amended forms received 14/05/24
Updated document	MA1 Non-Technical Summary	14/05/24
Updated document	MA2 Best Available Techniques Assessment (BAT)	14/05/24
Updated document	MA3 Fire Prevention Plan (FPP) V9	14/05/24
Updated document	MA8 Noise Impact Assessment	14/05/24
Updated document	MA9 Noise Management Plan	14/05/24
Updated document	MA10 Lincoln Storm Limited OTEMS	14/05/24
Updated document	MA11 ERA	14/05/24
Updated document	MA13 (new) DEMP	14/05/24
Updated document	MA18 supporting maps	14/05/24
Updated document	Revised list of waste types in email	15/07/24

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>Noise management</p> <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"> • Results of noise surveys taken once both shredders and other associated plant are in operation • Analysis of the results and identification of adverse impacts • Identification of where additional noise mitigation is required and timescales for implementation <p>The operator must implement the proposals in the report in line with the timescales agreed with the Environment Agency's written approval.</p>	3 months from completion of commissioning activities permitted under EPR/KB3002CW/V005
IC2	<p>The Operator shall submit a written report to the Environment Agency for technical assessment and approval. The report must contain:</p> <ul style="list-style-type: none"> • Results of monitoring from emission points 'EMP1' and 'EMP2', as shown on plan ref '020_09_013, of the parameters detailed in table 3.1 of the permit, pre-operational condition 5 and any other parameters to verify the assumptions made within the application. The results shall be taken from a minimum of three rounds of monitoring. 	3 months from date of issue of variation

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> • A revised H1 using the results of the monitoring where the actual emissions are higher than those in the original H1. • Detailed air dispersion modelling where the emissions do not screen out within the revised H1. • Measures to be taken to reduce or abate emissions where detailed modelling does not screen out emissions. <p>The Operator shall implement any improvement measures and applicable limits identified within the report in line with a timetable agreed in writing with the Environment Agency.</p>	
IC3	<p>Construction and integrity of storage tent 4 on site.</p> <p>The operator shall submit a written report to the Environment Agency for confirmation.</p> <p>The report shall contain evidence that the construction of storage tent no.4 on-site has been built to ensure that the internal areas are watertight and contain appropriate fire control measures.</p> <p>The operator must implement the any proposals in the report in line with the timescales agreed with the Environment Agency's written confirmation.</p>	3 months from date of issue of variation

Table S1.4: Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
1	Construction and integrity of all bunds surrounding the outdoor tanks, used to supply water for the shredding process	<p>Prior to the use of the lithium battery treatment facility (wet shredding stage only) the Operator shall undertake a survey carried out by a competent person (qualified civil engineer, structural engineer, or integrity assessor) of the primary, secondary and tertiary containment at the site and review measures against the relevant standards listed in Sections 4 and 6.5 of Chemical Waste: appropriate measures for permitted facilities, Nov 2020, including relevant CIRIA, HSE and EEMUA guidance.</p> <p>The operator shall submit a written report to the Environment Agency for approval which outlines the results of the survey in line with the requirements in Chemical Waste: appropriate measures for permitted facilities, Nov 2020 and provide details of:</p> <ul style="list-style-type: none"> •current containment measures; •physical condition of the storage vessels;

Table S1.4: Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		<ul style="list-style-type: none"> •any deficiencies identified in comparison to relevant standards; •improvements proposed. •time scales for implementation of improvements; and •a preventative maintenance and inspection regime. <p>The operator shall implement the proposed improvements in line with the timescales agreed by the Environment Agency.</p>
2	Use of tent No. 5 within the transfer station	<p>Prior to the use of tent No. 5 on site the operator shall submit a written report to the Environment Agency for confirmation.</p> <p>The report shall contain evidence that the construction of tent 5 has been completed to ensure that the internal areas are watertight and appropriate fire control measure have been installed.</p>
3	Construction and integrity of storage tents 1, 2 and 3 on site	<p>Prior to the use of the lithium battery treatment facility (wet shredding, dryer and mechanical separation) the operator shall submit a written report to the Environment Agency for confirmation.</p> <p>The report shall contain evidence that the construction of all existing storage tents and process buildings on-site have been built to ensure that the internal areas are watertight and contain appropriate fire control measures.</p>
4	Construction and integrity of the site surfacing	<p>Prior to the use of the lithium battery treatment facility (shredding, drying and mechanical separation) the operator shall submit a written report to the Environment Agency for assessment and approval.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> • A review of the environmental protection measures in the permit area and whether they are effective in minimising any risk to the environment. The review shall include, but not be restricted solely to, consideration of:

Table S1.4: Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		<ul style="list-style-type: none"> - Protection of surface water drains/channels from fugitive emissions. - Condition of hardstanding/impermeable surfaces. • Proposals for any remedial works to improve environmental protection measures along with timescales for implementation. <p>You must implement the proposals in the report in line with timescales agreed with the Environment Agency.</p>
5	<p>Commissioning plan prior to the use of the lithium battery treatment facility (wet shredding, drying and mechanical treatment)</p> <p>The commissioning plan shall assess each part of the process separately.</p> <p>Part 1 – Wet Shredding activity</p> <p>Part 2 – Drying process with the appropriate abatement system.</p> <p>Part 3 – Mechanical (dry) treatment process with the appropriate abatement system.</p> <p>And once each part has been given written approval by the Environment Agency, each part can commence operations.</p>	<p>Prior to use of each part of the Li battery shredding and processing plant the operator shall submit a commissioning plan/report for approval by the environment agency. The commissioning plan/report must include the following</p> <ul style="list-style-type: none"> • Details of the proposed commissioning procedures and timescales associated with the activities. • Confirmation and details of monitoring systems, audits and emergency procedures in place on site to ensure all activities are fully operational and working as designed. • Proposed monitoring programme to fully characterise and confirm emissions from the treatment processes (EMP1 and EMP2 (to air)), to provide emissions inventory, as required by BATCs <p>And once each part has been given written approval by the Environment Agency, each part can commence operations.</p>

Schedule 2 – Waste types, raw materials, and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Diesel Fuel	-
Fire suppressant material	-

Table S2.2 Permitted waste types and quantities for lithium battery/waste treatment facility	
Maximum quantity	The total waste accepted at site for all activities will not exceed 20,000 tonnes per year.
Waste code	Description
6	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 15*	metallic oxides containing heavy metals (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
06 03 16	metallic oxides other than those mentioned in 06 03 15 (Code is used in EU for dry materials - Anode/Cathode Foils & Dry Cells)
06 03 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
06 04	metal-containing wastes other than those mentioned in 06 03
06 04 05*	wastes containing other heavy metals (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
06 04 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
11 01 98*	other wastes containing hazardous substances (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
11 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
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 (Code is used for mixed Cu/Al foils with small polymer contamination and our lines can separate this)
12 01 04	non-ferrous metal dust and particles (Code is used sometimes for Cathode/Anode Foils. No Waste consisting of solely loose powder and dust)

Table S2.2 Permitted waste types and quantities for lithium battery/waste treatment facility	
Maximum quantity	The total waste accepted at site for all activities will not exceed 20,000 tonnes per year.
12 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 18	non-ferrous metal (Code is used by LG for Al Chips)
16 01 21*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14 (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 01 22	components not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
16 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
16 03	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 03 04	inorganic wastes other than those mentioned in 16 03 03 (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 06	batteries and accumulators
16 06 05	other batteries and accumulators (Limited to Lithium-Ion Batteries or component parts)
16 09	oxidising substances
16 09 04*	oxidising substances, not otherwise specified (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 12	bottom ash and slag other than those mentioned in 19 01 11 (We have received thermally treated Li-Ion Batteries from Germany under this code (they are whole batteries roasted at 600C to remove electrolyte and polymers. We then ran them in dry separation line and achieved 99% recovery. 1. Fe 2. Black Mass 3. Clean Cu/Al)
19 01 17*	pyrolysis wastes containing hazardous substances (We have received thermally treated Li-Ion Batteries from Germany under this code (they are whole batteries roasted at 600C to remove electrolyte and polymers. We then ran them in dry separation line and achieved 99% recovery. 1. Fe 2. Black Mass 3. Clean Cu/Al)
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17 (Limited to Lithium-Ion Batteries or component parts which have been thermally treated)
19 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
19 10	wastes from shredding of metal-containing wastes
19 10 02	non-ferrous waste

Table S2.2 Permitted waste types and quantities for lithium battery/waste treatment facility	
Maximum quantity	The total waste accepted at site for all activities will not exceed 20,000 tonnes per year.
19 10 03*	fluff-light fraction and dust containing hazardous substances (code used for battery shred)
19 10 05*	other fractions containing hazardous substances (code used for battery shred)
19 10 06	other fractions other than those mentioned in 19 10 05 (code used for battery shred)
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal (Limited to Lithium-Ion Batteries or component parts)
19 12 03	non-ferrous metal (Limited to Lithium-Ion Batteries or component parts)
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances (code used for battery shred)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (code used for battery shred)
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 (Limited to Lithium-Ion Batteries or component parts)
20 01 34	batteries and accumulators other than those mentioned in 20 01 33 (Limited to Lithium-Ion Batteries or component parts)
20 01 99	other fractions not otherwise specified (Limited to Lithium-Ion Batteries or component parts)

Table S2.3 Permitted waste types and quantities for hazardous and non-hazardous waste transfer station.	
Maximum quantity	The total waste accepted at site for all activities will not exceed 30,000 tonnes per year.
Waste code	Description
6	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 15*	metallic oxides containing heavy metals (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
06 03 16	metallic oxides other than those mentioned in 06 03 15 (Code is used in EU for dry materials - Anode/Cathode Foils & Dry Cells)
06 03 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
06 04	metal-containing wastes other than those mentioned in 06 03
06 04 05*	wastes containing other heavy metals (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)

Table S2.3 Permitted waste types and quantities for hazardous and non-hazardous waste transfer station.	
Maximum quantity	The total waste accepted at site for all activities will not exceed 30,000 tonnes per year.
06 04 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDRO-METALLURGY
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)
11 01 98*	other wastes containing hazardous substances (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
11 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
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 (Code is used for mixed Cu/Al foils with small polymer contamination and our lines can separate this)
12 01 04	non-ferrous metal dust and particles (Code is used sometimes for Cathode/Anode Foils. No Waste consisting of solely loose powder and dust)
12 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 18	non-ferrous metal (Code is used by LG for Al Chips)
16 01 21*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14 (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 01 22	components not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
16 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
16 03	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 03 04	inorganic wastes other than those mentioned in 16 03 03 (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 06	batteries and accumulators
16 06 05	other batteries and accumulators (Limited to Lithium-Ion Batteries or component parts)
16 06 06*	separately collected electrolyte from batteries and accumulators
16 09	oxidising substances

Table S2.3 Permitted waste types and quantities for hazardous and non-hazardous waste transfer station.	
Maximum quantity	The total waste accepted at site for all activities will not exceed 30,000 tonnes per year.
16 09 04*	oxidising substances, not otherwise specified (Code is used by battery manufacturers in EU for Li-Ion Packs, Modules, Cells, Dry Cells, Anode Foils, Cathode Foils)
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 12	bottom ash and slag other than those mentioned in 19 01 11 (We have received thermally treated Li-Ion Batteries from Germany under this code (they are whole batteries roasted at 600C to remove electrolyte and polymers. We then ran them in dry separation line and achieved 99% recovery. 1. Fe 2. Black Mass 3. Clean Cu/Al)
19 01 17*	pyrolysis wastes containing hazardous substances (We have received thermally treated Li-Ion Batteries from Germany under this code (they are whole batteries roasted at 600C to remove electrolyte and polymers. We then ran them in dry separation line and achieved 99% recovery. 1. Fe 2. Black Mass 3. Clean Cu/Al)
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17 (Limited to Lithium-Ion Batteries or component parts which have been thermally treated)
19 01 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 04*	premixed wastes composed of at least one hazardous waste
19 02 11*	other wastes containing hazardous substances
19 02 99	wastes not otherwise specified (Limited to Lithium-Ion Batteries or component parts)
19 10	wastes from shredding of metal-containing wastes
19 10 02	non-ferrous waste
19 10 03*	fluff-light fraction and dust containing hazardous substances (code used for battery shred)
19 10 05*	other fractions containing hazardous substances (code used for battery shred)
19 10 06	other fractions other than those mentioned in 19 10 05 (code used for battery shred)
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 02	ferrous metal (Limited to Lithium-Ion Batteries or component parts)
19 12 03	non-ferrous metal (Limited to Lithium-Ion Batteries or component parts)
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances (code used for battery shred)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 (code used for battery shred)

Table S2.3 Permitted waste types and quantities for hazardous and non-hazardous waste transfer station.

Maximum quantity	The total waste accepted at site for all activities will not exceed 30,000 tonnes per year.
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 (Limited to Lithium-Ion Batteries or component parts)
20 01 34	batteries and accumulators other than those mentioned in 20 01 33 (Limited to Lithium-Ion Batteries or component parts)
20 01 40	Metals (Code can be used for Cu/Al clean scraps from OEM's or Battery Manufacturers that are mixed and we take as part of a whole contract)
20 01 99	other fractions not otherwise specified (Limited to Lithium-Ion Batteries or component parts)

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	Total Particulate Matter (Dust)	5 mg/m ³	Hourly average	3 monthly	BS EN 13284-1
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	Total Particulate Matter (Dust)	5 mg/m ³	Hourly average	3 monthly	BS EN 13284-1
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	Total VOCs	30mg/m ³ or as agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	Ni, Cd	No Limit or as agreed in line with IC2	Average of 3 consecutive representative measurements of at least 30 minutes each or as agreed in line with IC2	Yearly or as agreed in line with IC2	EN 14385 or as agreed in line with IC2
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	As, Co, Cr, Cu, Mn, Pb, Sb, Se, Ti, V	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	SO ₂	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	HCl	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP1', as shown on	Vent	HF	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
plan ref '020_09_013						
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	Brominated flame retardants	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	Dioxin-like PCBs	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP1', as shown on plan ref '020_09_013	Vent	PCDD/F	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	Total VOCs	30mg/m3 or as agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	Ni, Cd	No Limit or as agreed in line with IC2	Average of 3 consecutive representative measurements of at least 30 minutes each or as agreed in line with IC2	Yearly or as agreed in line with IC2	EN 14385 or as agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	As, Co, Cr, Cu, Mn, Pb, Sb, Se, Ti, V	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	SO ₂	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on	Vent	HCl	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
plan ref '020_09_013						
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	HF	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	Brominated flame retardants	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	Dioxin-like PCBs	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2
Emission point 'EMP2', as shown on plan ref '020_09_013	Vent	PCDD/F	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2	As agreed in line with IC2

Note 1: Concentrations are defined at a temperature of 27.3.15K, a pressure of 101.3kPa at 17% O2 with no correction for water vapour.

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
None						

Table S3.3 Point source emissions to groundwater/soakaway.						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
Drainage tank 2 as shown on entitled 'Drainage system' and referenced 020.1_09_012	Only clean tested water from the underground storage tank					

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Wet Scrubber	Gas flow rate – differential pressure	Continuous	Gas flow meter / EN 16911-1 and MID for EN 16911-1	
	pH scrubber solution	Continuous	pH meter	
	Conductivity	Daily	Conductivity meter	
Carbon Filter	Carbon bed temperature – bed temperature only	Continuous	Temperature probe	
	Gas flow rate – differential pressure	Continuous	Gas flow meter	
	Pressure	Weekly	Recognised industry method	
Bag filter	Pressure	Weekly	Recognised industry method	
Water used for the lithium battery shredding activity	pH	Daily	pH meter	
	Temperature	Daily	Recognised industry method	

Schedule 4 – Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Point source emissions to air Parameters as required by condition 3.5.1	Emissions points as shown on plan ref '020_09_013	Every 6 months or as agreed in line with IC2	1 January, 1 July

Table S4.2 Annual production/treatment	
Parameter	Units
Batteries treated via wet shredding	tonnes
Batteries waste treated via dry shredding (excluding waste input from the wet shredding process)	tonnes
Black mass produced from treatment	Kgs/tonnes
Non-ferrous metals produced from treatment	Kgs/tonnes
Paper and plastic produced from treatment	Kgs/tonnes
Other wastes produced from the treatment	Kgs/tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes/m ³
Energy usage	Annually	MWh
Other performance parameters	Annually	tonnes per production unit

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Process monitoring	Process Monitoring Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Waste returns	E-Waste Return Form	-

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.

“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.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“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.

“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 (as amended).

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

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

“pests” means birds, vermin and insects.

“pollution” includes pollution of the environment, harm to human health and serious detriment to the amenities of the locality, resulting from the permitted activities.

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

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

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

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

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

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

“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.

When the following terms appear in the waste code list in Schedule 2, tables S2.2, S2.3, S2.4, S2.5 and S2.6 for those tables, they have the meaning given below:

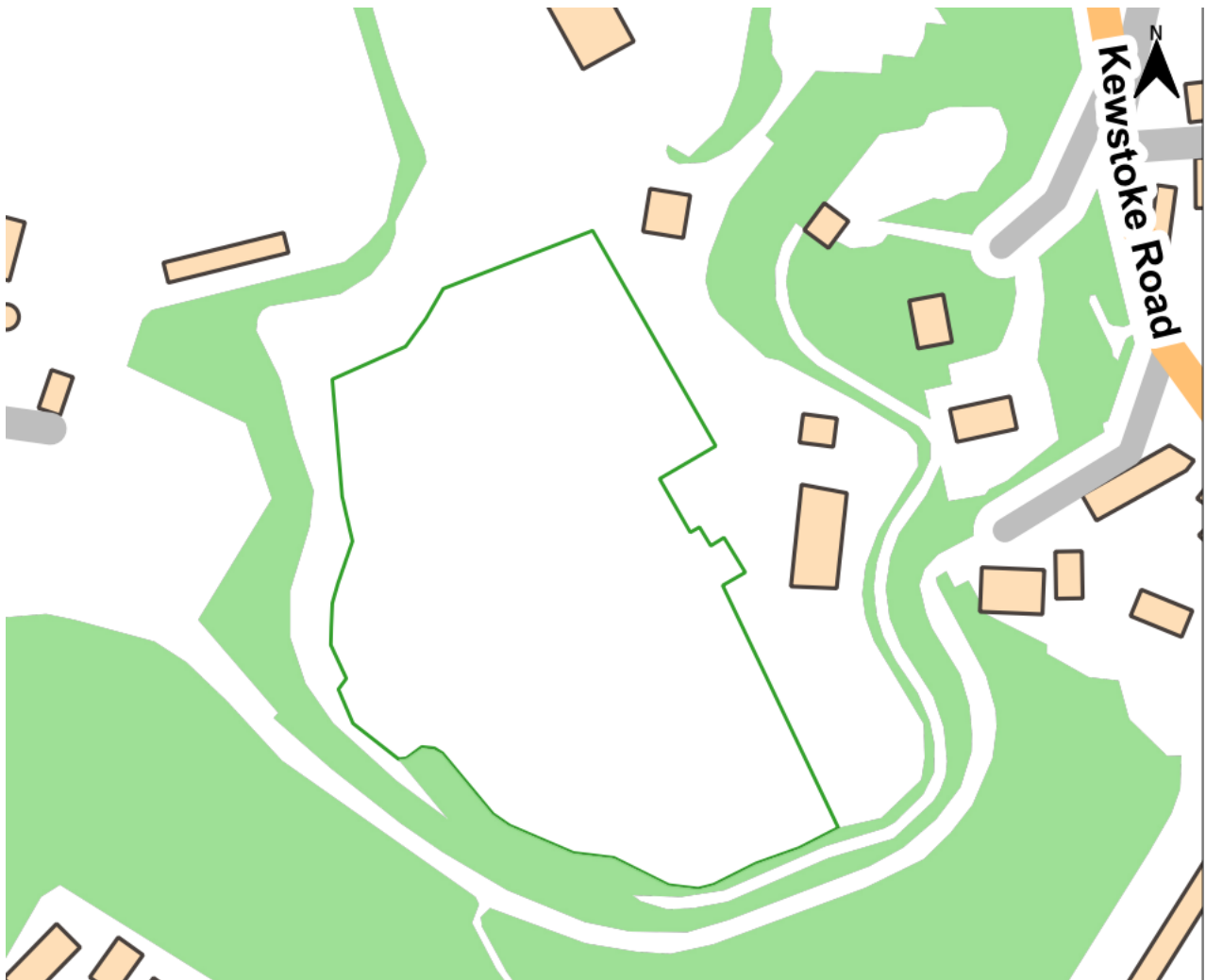
“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“PCBs” means.

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0.005% by weight.

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

Schedule 7 – Site plan



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