

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Blue Phoenix Limited
Castle Bromwich IBA Facility
Civic Amenities Depot
Tameside Drive
Castle Bromwich
B35 7AG

Variation application number

EPR/DB3335RV/V006

Permit number

EPR/DB3335RV

Castle Bromwich IBA Facility

Permit number EPR/DB3335RV

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 by this variation notice:

This variation has been issued to update the permit following a statutory review of the permits in the industry sector for treatment of incinerator bottom ash.

The Industrial Emissions Directive (IED) came into force on 7th January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) conclusions as described in the Commission Implementing Decision. The BAT conclusions for incineration were published on 03 December 2019 in the Official Journal of the European Union (L323) following a European Union wide review of BAT, implementing decision 2017/2117/EU of 21 November 2017.

The main features of the permit are as follows.

The environmental permit allows the operation of an Incinerator Bottom Ash recovery facility. The installation accepts and treats Incinerator Bottom Ash (IBA) to recover ferrous and non-ferrous metal and to produce an Incinerator Bottom Ash Aggregate (IBAA) The facility is permitted to accept up to 180,000 tonnes of IBA per year.

Site activities are as follows:

- S5.4 A(1) (b) (iii) - Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes.
- Storage of waste prior to treatment.
- Storage of recovered IBAA and residual waste after treatment
- Storage of raw materials.
- Blending of IBAA fractions with virgin/primary aggregate.
- Collection of uncontaminated surface water in tanks for reuse or discharge to foul sewer.
- Collection and storage of contaminated water in a lagoon for re-use on site or discharge to foul sewer.

Unprocessed IBA (Incinerator Bottom Ash) is received and stored separately on site until the testing data confirms the waste classification of the IBA as non-hazardous. The material is then stockpiled, prior to processing for a minimum of 3 weeks so that the IBA undergoes an ageing process prior to being processed.

The IBA is treated in an enclosed building and/or enclosed equipment using a combination of vibrating screeners and magnetic separators to remove the non-ferrous and ferrous metals. Currently, additional screening is also undertaken outside within storage areas. We have included improvement conditions as part of this variation which require Blue Phoenix to review this treatment operation and to implement any identified improvements.

IBAA that is produced from the treatment processes is stored outside for further weathering for a minimum of 4 weeks. The treatment and storage areas are impermeable with a sealed drainage system.

To prevent/minimise dust emissions, the incoming waste is received and stored at a moisture content of approximately 20% moisture. The waste will be continually monitored and dampened down if there is a potential for dust emissions. Other dust control measures include regular housekeeping activities and dampening down of haul roads.

There are no channelled emissions to air, but there is a discharge to foul sewer. The site is equipped with an impermeable surface and a sealed drainage system. Waste water flows to a lagoon where the water is temporarily stored. The water is used for dust suppression or discharged to foul sewer if excessive rainfall results in exceedance of the capacity.

The site is located in an area occupied by a number of industrial businesses to the South East. The Industrial complex is also close to the Langley Wood Ancient Woodland which is within 280 metres .

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

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Status log of the permit		
Description	Date	Comments
Application EPR/DB3335RV/A001	Duly made. 24/10/11	Application for waste IBA recycling facility.
Additional information received	17/01/12	IBA/IBAA stockpile details.
Additional information received	21/02/12	Technically competent management details.
Additional information received)	02/03/12	Dust management plan. Site drainage details.
Permit EPR/DB3335RV determined	19/02/13	Permit issued to Ballast Phoenix Limited.
Variation application EPR/DB3335RV/V002	Duly made. 23/09/13	Change to registered office address.
Application EPR/DB3335RV/V003 (variation and consolidation)	Duly made. 09/09/14	Application to vary and update the permit to IED conditions.
Variation determined. EPR/DB3335RV/V003	21/07/16	Varied and consolidated permit issued in modern condition format.
Notified of change of Company Name	26/01/20	Company name changed to Blue Phoenix Limited
Variation issued EPR/DB3335RV/V004	06/02/20	Varied permit issued to Blue Phoenix Limited
Application EPR/DB3335RV/V005 (variation and consolidation)	Duly made. 12/05/23	Application to increase annual throughput.
Variation determined and consolidation issued EPR/DB3335RV	08/06/23	Varied and consolidated permit issued.

**Variation and consolidation
application number**

Error! Unknown document property name. **EPR/DB3335RV**

Status log of the permit		
Description	Date	Comments
Environment Agency Non-hazardous Waste Sector Review Variation number EPR/DB53335RV/V006 (variation and consolidation)	14/04/23	Regulation 61 Notice requiring information for Statutory review of permit. BAT Conclusions published 03 December 2019 - documents received in response to the Regulation 61 Notice dated 13/07/2023.
Regulation 61 notice – additional information	27/02/24	Information received in response to Request for Further Information dated 15th April 2024: <ul style="list-style-type: none"> ▪ Regulation 61 notice – CB Request for Further Information Q1-Q7 ▪ “Assessment of benefits and Risk for Storing material outside”. ▪ “IBA-IBAA Stockpiles – Dust potential” ▪ “Site Drainage Plan. ▪ Lagoon water samples referenced “CB Lagoon Water”
	23/04/24	Information received in response to Request for Further Information dated 24th April 2024 within an email Q1 and Q2.
Variation issued. EPR/DB53335RV	12/12/24	Varied and consolidated permit issued in modern format

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/DB3335RV

Issued to

Blue Phoenix Limited (“the operator”)

whose registered office is

1 Victoria Stables

Essex Way

Bourne

Lincolnshire

PE10 9JZ

company registration number **03290431**

to operate a regulated facility at

Castle Bromwich IBA Facility

Civic Amenities Depot

Tameside Drive

Castle Bromwich

B35 7AG

to the extent set out in the schedules.

The notice shall take effect from 12/12/2024

Name	Date
Matthew Allen	12/12/2024

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions and tables have been added /varied/deleted as a result of the Environment Agency Initiated Variation

- Conditions 2.4.1 and 2.4.2 have been added to implement the improvement programmes associated with this variation.
- Condition 3.1.2 has been added to specify that the limits in Table S3.1 shall not be exceeded.
- Conditions 3.5.1 – 3.5.4 of this variation have been added to implement the monitoring requirements introduced by this variation.
- Condition 3.6.1 and 3.6.2 related to Pest Management have been added
- Condition 4.3.7 deleted because it is not relevant to the site operation.
- Table S1.1 as referenced in Condition 2.1.1 has been amended to clearly define the activities that are undertaken at the site and to apply the relevant limits to them.
- Table S1.2 as referenced in Conditions 2.3.1 and 2.3.2 has been amended to incorporate operating technique documents submitted in response to the Regulation 61 Notice.
- Table S1.3 as referenced in Condition 2.4.1 has been added to implement the improvement conditions IC1a – IC5.
- Table S3.1 as referenced in Conditions 3.1.1 (a) and 3.6.1 has been amended to apply the relevant monitoring limits and standards for point source emission to sewer.
- Table S3.2 as referenced in Conditions 3.6.1 (b) and 3.6.4 has been added to incorporate the monitoring of process parameters ambient air.
- Table 3.3 as referenced in Conditions 3.6.1 (b) and 3.6.4 has been added to incorporate the monitoring of ambient air emissions.
- Table S4.1 as referenced in Conditions 4.2.3 (b) and (c) has been added to implement reporting of process and ambient air monitoring.
- Table S4.4 as referenced in Conditions 4.2.2 (c) and 4.2.3 (b) has been amended to include relevant reporting forms.
- Schedule 6 as referenced in condition 4.4.1 has been amended by adding additional interpretations that are relevant to the changes made as a result of this variation and by updating some of the existing interpretations.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/DB53335RV

This is the consolidated permit referred to in the variation and consolidation notice for application **EPR/DB53335RV/V006** authorising,

Blue Phoenix Limited (“the operator”)

whose registered office is

1 Victoria Stables

Essex Way

Bourne

Lincolnshire

PE10 9JZ

company registration number **03290431**

to operate an Installation at

Castle Bromwich IBA Facility

Civic Amenities Depot

Tameside Drive

Castle Bromwich

B35 7AG

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

Name	Date
Matthew Allen	12/12/2024

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

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

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

2 Operations

2.1 Permitted activities

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

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 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.

2.3.6 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 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.

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1
 - (b) process monitoring specified in table S3.2.
 - (c) ambient air monitoring specified in table S3.3.
- 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 2 tables S3.1, S3.2 and S3.3 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, hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency

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

4.3 Notifications

4.3.1 In the event:

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

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

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

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

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

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

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately" in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	S5.4 Part A(1) (b) (iii) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving treatment of slags and ashes.	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of permitted waste IBA through to treatment to produce Incinerator Bottom Ash Aggregate (IBAA). Treatment of IBA in an enclosed building and/or enclosed equipment using a combination of vibrating screens and magnetic separators. Treatment shall take place on an impermeable surface with sealed drainage. There shall be no channelled emissions to air and/or direct discharges to water from this activity. Waste types as specified in Table S2.2.
Directly Associated Activity			
AR2	N/A	Storage of IBA prior to treatment R13: Storage of waste pending the operations numbered R1, R4 and R5 (excluding temporary storage, pending collection, on the site where it is produced)	From receipt of waste to transfer to treatment processes. Storage shall take place on an impermeable surface with sealed drainage system. There shall be no channelled emissions to air or direct discharges to water from this activity. The combined maximum quantity of IBA, IBAA, ferrous and non-ferrous metal stored on site at any one time shall be limited to the tonnage agreed under IC5. No waste shall be stored for more than 12 months. Waste types as specified in Table S2.2.
AR3	N/A	Storage of wastes recovered from the IBA treatment processes R13: Storage of waste pending the operations numbered R1, R4 and R5	From recovery of waste to despatch off-site for use. Storage of processed IBAA, ferrous and non-ferrous metals after treatment.

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
		(excluding temporary storage, pending collection, on the site where it is produced)	The combined maximum quantity of IBA, IBAA, ferrous and non-ferrous metals stored on site at any one time shall be limited to the tonnage agreed under IC5. Storage shall take place on an impermeable surface with a sealed drainage system. There shall be no channelled emissions to air and/or direct discharges to water from this activity.
AR4	N/A	Storage of raw materials	From the receipt of raw materials to despatch for use within the facility.
AR5	N/A	Collection and storage of uncontaminated roof and site surface water in tanks	From the collection of uncontaminated roof and site surface water in tanks for reuse in the facility for dust control or discharge to sewer.
AR6	N/A	Collection and storage of contaminated site surface water in a settlement lagoon.	From the collection of contaminated process water produced at the facility to storage in the site lagoon for reuse within the facility for dust control or discharge to sewer.
AR7	N/A	Blending of IBAA fractions with virgin/primary aggregates R5: Recycling/reclamation of other inorganic materials	Treatment consisting of blending of IBAA fractions with virgin/primary aggregates only. There shall be no channelled emissions to air and/or direct discharges to water from this activity. Treatment shall take place on an impermeable surface with sealed drainage.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/DB3335RV/A001	Part B4, Table 3a Technical Standards	24/10/2011
Additional information EPR/DB3335RV/V005	Revised dust and particulate emissions management plan, submitted as part of variation V005. "Application - Variation V005 - DEMP - Castle Bromwich final 16082022.pdf"	16/08/2022

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to regulation 61 notice EPR/DB3335RV/V006	Documents received in response to the Regulation 61 Notice titled. <ul style="list-style-type: none"> ▪ <i>'BPUK Castle Bromwich 220220 BATC Return Spreadsheet'</i> ▪ <i>CB Site plan including stockpile plan.</i> ▪ <i>BPL QMS Storage and Handling of IBA-IBAA</i> ▪ <i>BPL EMS P005 Waste Acceptance Criteria</i> 	13/07/2023
Response to Request for Further Information	Drainage Plan <i>Drawing no12433-005Z</i>	15/04/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1a	<p>The operator shall carry out a detailed review of the existing waste treatment, storage and handling equipment at the site to ensure that they are in accordance with the requirements specified in the <u>Non-hazardous and inert waste: appropriate measures for permitted facilities</u> guidance and BAT 24 of the <u>Waste Incineration BAT Conclusions</u>.</p> <p>This review shall include but not be limited to an assessment of:</p> <ul style="list-style-type: none"> • The screening activities taking place outside. • Stockpile protection. • Discharge height of conveyors. <p>Following the review, the operator shall submit a written report to the Environment Agency for approval outlining the results of the review and measures and procedures that are in place to prevent fugitive emissions of dust.</p> <p>The report shall include recommendations for improvements and installation of new infrastructure, including timescales for implementation of the identified improvements</p>	12/06/25
IC1b	Following the completion of IC1a, the operator shall implement any improvements by the deadline specified in this improvement condition unless otherwise agreed in writing with the Environment Agency.	12/06/26
IC2a	<p>The operator shall undertake a review of the site surfacing and drainage systems for all areas where waste storage and treatment is taking place. The review shall ascertain the state, design and construction standard of impermeable surfaces and sealed drainage systems on site to confirm that they are in line with, or equivalent to the standards required in CIRIA Report C736.</p> <p>The report of the review shall be certified by a suitably qualified engineer and submitted to the Environment Agency for approval together with details of any improvements</p>	12/06/25
IC2b	Following the completion IC2a, the operator shall implement the improvement measures by the deadline specified in this improvement condition unless otherwise agreed in writing with the Environment Agency. The improvements may include, but are not limited to, the installation of impermeable surface, sealed drainage and containment systems.	12/06/26

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC3	<p>The operator shall submit a revised Dust Management Plan (DMP) to the Environment Agency for approval.</p> <p>The revised plan shall include an assessment of the risk of dust pollution associated with the permitted site operations, and a proposal for optimum moisture ranges and details of the moisture monitoring method and frequency for the IBA and IBAA. The monitoring methods may include for example, the use of moisture probes or dry/wet analysis or any other alternative methods that are suitable for establishing the optimum moisture range for effective dust emission control.</p> <p>The plan shall take into account the appropriate measures for dust control specified in the <u>Non-hazardous and inert waste: appropriate measures for permitted facilities</u> guidance and <u>Control and monitor emissions for your environmental permit</u>.</p> <p>Once the DMP is approved by the Environment Agency, the operator shall carry out site operations in accordance with the approved DMP, and any subsequent revisions agreed in writing by the Environment Agency</p>	12/12/25
IC4	<p>The operator shall identify the locations for ambient air monitoring of deposited dust and visual dust as required by table S3.3 in the permit and submit these on a site layout plan to the Environment Agency for approval.</p> <p>Once approved by the Environment Agency, the operator shall carry out ambient air monitoring at the identified and approved locations in accordance with the monitoring standard in table S3.3.</p>	12/02/25
IC5	<p>The operator shall submit a report to the Environment Agency for approval identifying the waste storage capacity at the site at any one point in time.</p> <p>This should also include:</p> <p>Justification, showing calculation of the waste storage capacity</p> <p>Measures to monitor against exceedance of the maximum allowed storage capacity;</p> <p>Once approved by the Environment Agency, the operator shall adhere to the agreed waste storage capacity.</p> <p>Note that approval of reports under this improvement condition does not preclude the need for permit variation application(s) to operate the improvements identified in the report</p>	12/02/25

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil	Sulphur content not exceeding 0.1% by mass.

Table S2.2 Permitted waste types and quantities for incinerator bottom ash treatment facility	
Maximum quantity	Annual throughput shall be less than 180,000 tonnes.
Waste code	Description
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
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12	residual IBA received back for recovery

Schedule 3 – Emissions and monitoring

Table S3.1 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
Foul sewer discharge - as shown on layout and drainage plan (Drawing no. 12433-005Z) submitted on 09/09/2014	Waste water from bottom ash treatment	Total organic carbon (TOC)	No Limit set	Flow proportional composite sample over discharge duration, or spot sample if the discharge is mixed and homogeneous	Monthly or otherwise bi-annually if agreed in writing by the Environment Agency	EN 1484
		Total suspended solids	No Limit set			EN 872
		Lead (1)	0.06 mg/l			EN ISO 1188 5, EN ISO 1729 4-2 or EN ISO 1558 6
		Ammonium – nitrogen (NH ₄ -N)	No Limit set			EN ISO 11732 or EN ISO 14911
		Chloride (Cl ⁻)	No Limit set			EN ISO 10304-1 or EN ISO 15682
		Sulphate (SO ₄ ²⁻)	No Limit set			EN ISO 10304-1
		Dioxins/Furans (I-TEQ)	No Limit set		Bi-annually	BS ISO 1807 3
(1) The BAT-AELs may not apply if the downstream waste water treatment plant is designed and equipped appropriately to abate the pollutants concerned, provided this does not lead to a higher level of pollution in the environment						

Table S3.2 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
At the IBA and IBAA waste stockpiles shown on the site layout plan " <i>CB Site Plan including stockpile plan</i> ".	Moisture content	As agreed under the dust emissions management plan	As agreed under the dust emissions management plan required by Improvement Condition 3	-
Foul sewer discharge - as shown on layout and drainage plan (Drawing no. 12433-005Z) submitted on 09/09/2014	pH	Flow proportional composite sample over discharge duration, or spot sample if the discharge is mixed	BS ISO 10523	-
	Conductivity		EN 27888	-

Table S3.3 Ambient air monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
At the identified monitoring locations identified under IC4	Deposited dust	Monthly	Monitoring emissions to air, land and water (MCERTS)	Monitoring methods, trigger levels and actions as specified in dust emissions management plan
	Visual dust checks	Daily		

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 sewer Parameters as required by condition 3.5.1	Foul sewer discharge - as shown on layout and drainage plan (Drawing no. 12433-005Z) submitted on 09/09/2014	Every 12 months	1 January
Process monitoring Parameters as required by condition 3.5.	At the IBA and IBAA waste stockpiles	Every 6 months	1 January, 1 July
Ambient air monitoring Parameters as required by condition 3.5	At the monitoring points identified in IC4	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	Units
Incinerator bottom ash processed	tonnes
Ferrous metals recovered	tonnes
Non-ferrous metals recovered	tonnes
Incinerator bottom ash aggregate recovered	tonnes
Amount disposed to landfill	tonnes
Process water discharged to sewer	m ³

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

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Point source emissions to sewer	Emissions to Sewer Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Ambient air monitoring	Ambient Air Monitoring 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	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, 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 breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

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

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

“bottom ash” means ash falling through the grate transported by the grate.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“emissions to land” includes emissions to groundwater.

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

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

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

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

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

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

“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 to foul sewer.

“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

“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.

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

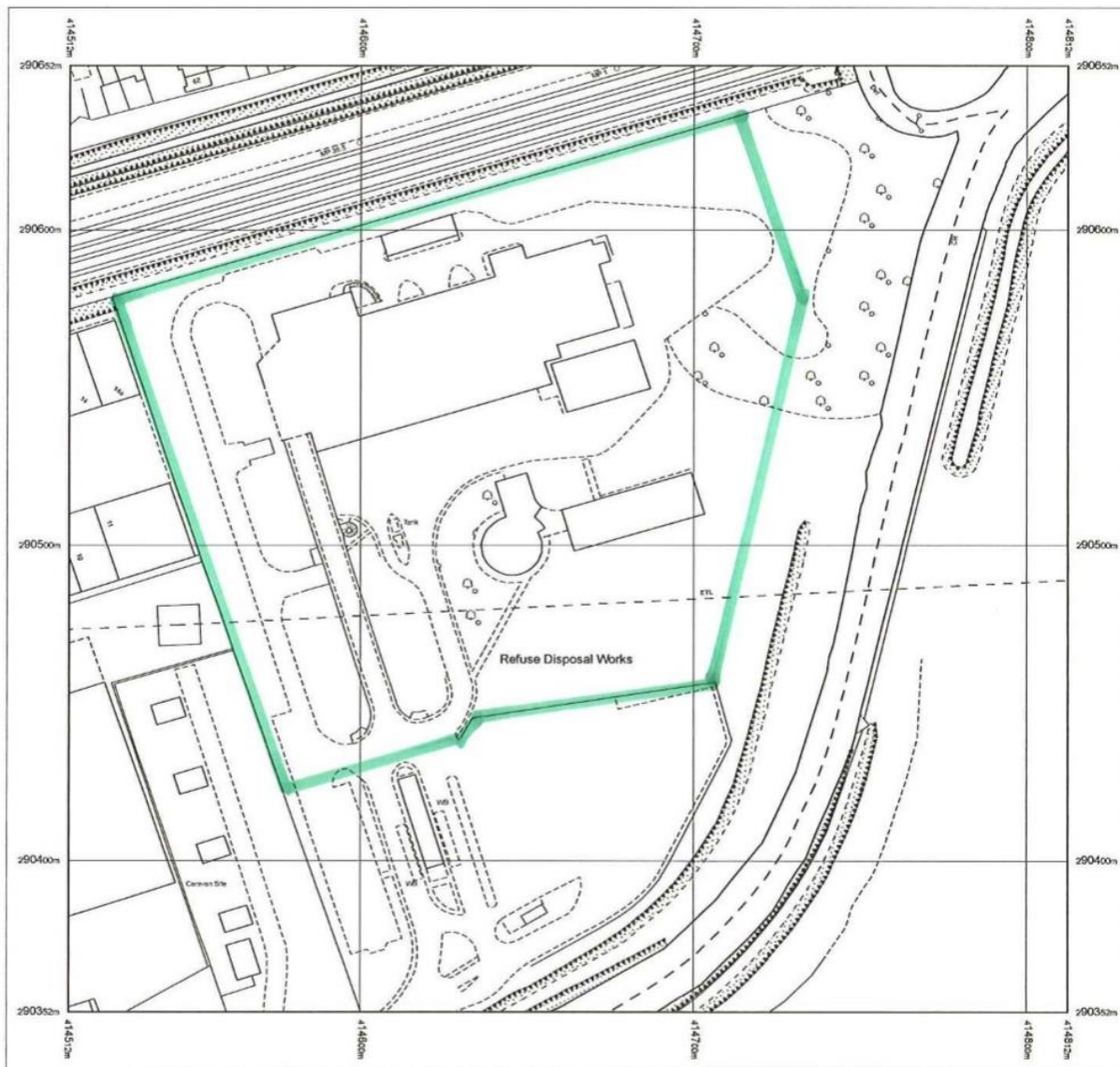
in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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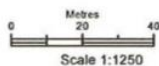
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