Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Johnsons Aggregates and Recycling Limited

Johnsons Aggregates and Recycling Limited - The Midlands Urban Mine
Merlin Way
Quarry Hill Industrial Estate
Ilkeston
Derby
DE7 4BG

Permit number

EPR/MP3430AM

Johnsons Aggregates and Recycling Limited - The Midlands Urban Mine
Permit number EPR/MP3430AM

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows:

The installation is located in the New Stanton area, which lies between Ilkeston, Sandiacre and Stapleford at grid reference SK 47615 39168. The installation is bounded to the north by a disused rifle range, to the south by vegetation, to the east by existing industrial land and to the west by public paths which form part of the National Cycle Network.

The installation will accept up to 300,000 tonnes of incinerator bottom ash (IBA) from the thermal treatment of municipal solid waste and 50,000 tonnes of metal wastes per annum. The IBA is processed to yield incinerator bottom ash aggregate (IBAA), which is generally accepted as a replacement for the majority of primary aggregates by both UK and European standards.

The installation will comprise the following activities:

- Receipt and acceptance of unprocessed IBA and metal wastes on an external area with an impermeable surface and sealed drainage;
- Storage of IBA for a period of time for conditioning;
- External crushing of IBA by a mobile crusher (regulated by a Local Authority under a separate permit);
- Drying of IBA prior to processing;
- Processing of conditioned IBA in an enclosed building: comprising vibrating screens and magnetic separation to remove the ferrous and non-ferrous metals and grading the product into different sizes;
- Shredding of metal wastes; and
- External storage of IBAA and separated metals prior to despatch off-site.

The IBA will be transferred to the facility in covered vehicles. The IBA is quenched before being transported, which means that it is carried in a moist condition preventing dust emissions during transportation. The IBA will be dried using a drier (thermal input of 37.1 MW) prior to further processing in the enclosed building. The IBA will be processed in accordance with the operator's Environment Management System (EMS) and operational procedures. This includes the inspection of the material prior to processing and ensuring the material is suitable for mechanical treatment. An EMS will be in place prior to the commencement of commissioning of the installation.

There is one point source emission to air from the IBA drier. Rain water is collected in three water storage tanks for use in dust suppression arising from handling of wastes and on-site traffic movements. The site is equipped with an impermeable surface and a sealed drainage system, all water used in dust suppression will flow into two wedge pit lagoons. During periods of high rainfall and before the wedge pit lagoons reach full capacity, excess water will be collected in tankers and removed off-site for disposal at an appropriate treatment facility. There are no discharges to controlled waters or foul sewer from this installation.

There are no internationally designated ecological sites and Sites of Special Scientific Interest within the relevant distance criteria of the installation. There are thirty non-statutory sites (Local Wildlife Sites, Ancient Woodlands and Local Nature Reserves) within 2 km of the installation. Assessment by the Environment Agency shows that emissions from the installation are unlikely to have an adverse impact on interest features of the ecological sites.

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

Status log of the permit		
Description	**Date**	**Comments**
Application EPR/MP3430AM/A001	Duly made 10/03/15	Application for a waste incinerator bottom ash treatment and metal processing facility.
Additional information received	12/05/15	Response to Schedule 5 notice #1 dated 14/04/15.
Additional information received	19/06/15	Response to Schedule 5 notice #2 dated 08/06/15.
Additional information received	01/07/15	Revised list of wastes.
Additional information received	06/07/15	Revised site plan.
Additional information received	10/07/15	IBA drier process description, revised site drainage plan, location of rotor shedder and clarification of site infrastructure.
Permit determined EPR/MP3430AM (Billing ref. MP3430AM)	16/07/15	Permit issued to Johnsons Aggregates and Recycling Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/MP3430AM

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Johnsons Aggregates and Recycling Limited ("the operator"),

whose registered office is

Bunny Hill
Loughborough Road
Bunny
Nottingham
NG11 6QN

company registration number 04366658

to operate an installation at

Johnsons Aggregates and Recycling Limited - The Midlands Urban Mine
Merlin Way
Quarry Hill Industrial Estate
Ilkeston
Derby
DE7 4BG

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

Name	Date
Thomas Ruffell	**16/07/2015**

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 tables S2.2 and S2.3; 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.

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 tables 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.

3.5 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 and S3.2;

(b) process 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 3 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 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where 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**
A1	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.	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of permitted waste to treatment and recovery (incinerator bottom ash aggregate). Treatment consisting of crushing, separation and screening of incinerator bottom ash shall be carried out on an impermeable surface with sealed drainage. Treatment shall be carried out in specified areas as detailed in the application (JA10b and JA10c). Waste types suitable for acceptance are limited to those specified in Table S2.2.
A2	S5.4 A(1) (b) (iv) Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 75 tonnes per day involving treatment in shredders of metal waste, including waste electrical and electronic equipment and end-of-life vehicles and their components.	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of metal wastes to treatment and recovery. Treatment of metal wastes on an impermeable surface with sealed drainage system. Treatment consisting only of sorting, separation, grading, shearing, shredding, baling, compacting, crushing and cutting of ferrous and non-ferrous metals into different components for recovery. Treatment shall be carried out in specified areas as detailed in the application (JA10b and JA10c). Post-treatment of metal wastes including cleaning

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**
			and further separation. Waste types suitable for acceptance are limited to those specified in Table S2.3. There shall be no storage and treatment of waste electrical and electronic equipment (WEEE) and end-of-life vehicles and their components at this facility.
	Directly Associated Activity		
A3	Storage of waste pending recovery	R13: Storage of waste pending the operations numbered R4 and R5 (excluding temporary storage, pending collection, on the site where it is produced).	Undertaken in relation to Activity A1 and A2. Storage of incinerator bottom ash in the designated external area on an impermeable surface with sealed drainage system prior to treatment. Storage of metal wastes in the designated external bay on an impermeable surface with sealed drainage system, prior to shredding.
A4	Storage of processed materials	Storage of separated ferrous metals, non-ferrous metals and incinerator bottom ash aggregate.	Undertaken in relation to Activity A1 and A2. From storage of processed materials to despatch for recovery off site. Storage of separated ferrous metals, non-ferrous metals and incinerator bottom ash aggregate shall be undertaken on an impermeable surface with sealed drainage system, as described in the application.
A5	Operation of diesel-fuelled burner	Combustion of diesel in one open-fired burner with a thermal input of 37.1 MW, for the purpose of drying the incinerator bottom ash	Undertaken in relation to Activity A1 and A2. From the receipt of fuel

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**
		prior to further processing.	(diesel) to combustion with the release of combustion gases.
A6	Raw material storage	Storage of raw materials including diesel, lubrication oils and virgin aggregate.	Undertaken in relation to Activity A1 and A2. From the receipt of raw materials to despatch for use within the facility. Storage of raw materials including diesel, lubrication oils and virgin aggregate shall be undertaken as described in the application.
A7	Process water collection and storage	Collection and storage of process water from incinerator bottom ash storage heaps in two wedge pit lagoons.	Undertaken in relation to Activity A1 and A2. From the collection of water from storage areas to re-use within the facility for dust suppression or disposal off-site.
A8	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in three storage tanks.	Undertaken in relation to Activity A1 and A2. From the collection of uncontaminated rain water from building roofs and mains supply only to re-use within the facility or disposal off-site.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/MP3430AM/A001	Information JA09a, JA09b provided in response to section 3a – technical standards, Part B3 of the application form: • JA09a – Directly Associated Activities • JA09b – Hauck Starjet Manual Other documents: • JA01b – Site location plan • JA10a – Simplified Process Flow Diagram • JA10b – IBA Process Flow Description • JA10c – Detailed Process Flow Diagram • JA14 – Dust Management Plan • JA17 – Site Closure Plan	10/03/15
Response to Schedule 5 Notice #1 dated 14/04/15	Response to questions 1, 4 and 13, including the following documents: • JA02 – Non technical summary • JA08 – List of wastes • JARL04 – Site storage areas • JA07a – Site environmental risk assessment • JA18 – Accident Management Plan • JA12 – Waste pre-acceptance, acceptance and storage procedures	12/05/15
Response to Schedule 5 Notice #2 dated 08/06/15	Response to questions 1 to 8 including the following documents: • JA16 – Best Available Techniques • Fire Prevention Plan • Drawing JARL05A – Site Emergency Plan	19/06/15
Additional information	Inclusion of waste code 19 12 12 for ash treatment.	01/07/15
Additional information	Revised site layout plan	06/07/15
Additional information	IBA drier process description, revised site drainage plan, location of rotor shedder and clarification of site infrastructure.	10/07/15

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall submit a written report to the Environment Agency on the commissioning of the installation. The report shall summarise the environmental performance of the installation as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the installation against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.	6 months following the completion of commissioning.
IC2	The operator shall undertake a detailed revised assessment of noise and vibration from site activities to verify the assumptions made in the application. The assessment shall be conducted in accordance with the specified procedures in BS4142:2014. The results of the assessment together with conclusions and recommendations shall be submitted to the Environment Agency for	6 months following the commencement of site operations.

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	approval in writing.	
IC3	Following the completion of IC2 and in accordance with the assessment method specified in BS4142:2014, the operator shall submit to the Environment Agency a report detailing proposals and timescales for the implementation of appropriate noise mitigation measures to ensure that site noise levels do not give rise to pollution. The proposals for noise mitigation shall be in accordance with the requirements of the Environment Agency's Technical Guidance Note IPPC H3 (Part 2) – Noise Assessment and Control. The proposals shall be implemented by the operator from the date of approval in writing by the Environment Agency subject to any such amendments or additions as notified by the Environment Agency.	1 month following the completion of IC2.

Table S1.4 Pre-operational measures	
Reference	**Pre-operational measures**
POC 1	At least four weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall submit a commissioning plan to the Environment Agency along with timescales for implementation. The plan shall be designed to demonstrate that permit conditions will be met under all anticipated operating conditions and shall also confirm the commissioning programme, detail plant monitoring protocols, assess the performance of all plant against design parameters and monitor any abnormal waste generated during commissioning. The plan shall be implemented in accordance with the Environment Agency's written approval. No site operations shall commence or waste accepted at the installation until the Environment Agency has given written approval of the commissioning plan.
POC 2	At least two weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall submit a written copy of the site Environmental Management System (EMS) and make available for inspection all documents and procedures which form part of the site EMS. The EMS shall cover all activities at the installation and shall be in accordance with the Environment Agency Guidance – How to comply with your Environmental Permit and section 2.3 in Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste. The EMS shall include the techniques the operator relies upon to manage the operation, closure and decommissioning of the site. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.
POC 3	At least four weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall ensure that a review of the design, method of construction and integrity of the proposed secondary containment for the diesel storage tank, fluids and oils drums is carried out by a qualified engineer. The review shall compare the proposed secondary containment against the standards/ requirements set out in the following Guidance documents: • CIRIA C736 – Containment Systems for the Prevention of Pollution – secondary, tertiary and other measures for industrial and commercial premises; • Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste; • How to Comply with your Environmental Permit and the Control of Pollution (Oil

Table S1.4 Pre-operational measures	
Reference	**Pre-operational measures**
	Storage) (England) Regulations 2001; and/or • other relevant industry standard. The review shall identify any measures necessary to meet those requirements and propose a timescale for implementing them. A written report of the review shall be submitted to the Environment Agency detailing the reviews findings and recommendations. Remedial action shall be taken to ensure all tanks meet the standards set out in the above documents and implement the maintenance and inspection regime. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.
POC 4	At least four weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall submit a report demonstrating that the oil storage tanks, pipework and secondary containment have been leak-tested. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.
POC 5	At least four weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall ensure that a review of the integrity of the site surfacing is carried out by a qualified engineer. The review shall compare the integrity of the site surfacing against the requirements of Section 2.2.5 of the Sector Guidance Note IPPC S5.06 – *Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste* and the relevant British Construction Standard. The review shall identify any measures necessary to meet those requirements and propose a timescale for implementing them. A written report of the review shall be submitted to the Environment Agency detailing the reviews findings and recommendations. Remedial action shall be taken to ensure that the site surfacing meets the standards set out in the above documents and implement the maintenance and inspection regime. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.
POC 6	At least four weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall submit a revised odour management plan to the Environment Agency in writing. The plan shall incorporate all the required detailed information as specified in the Environment Agency's review of the odour management plan submitted with the application. The revised plan shall take into account the appropriate measures for odour control specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste and Horizontal Guidance H4 – Odour Management. The odour management plan shall be implemented in accordance with the Environment Agency's written approval. No site operations shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.
POC 7	At least four weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the installation, the operator shall submit a revised noise management plan to the Environment Agency in writing. The plan shall incorporate all the required detailed information as specified in the Environment Agency's review of the noise management plan submitted with the application. The revised plan shall take into account the appropriate measures for noise control specified in section 2.9 of Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste and Appendix 4 of Horizontal Guidance IPPC H3 (Part 2) – Noise Assessment and Control. The noise management plan shall be implemented in accordance with the Environment Agency's

Table S1.4 Pre-operational measures	
Reference	**Pre-operational measures**
	written approval. No site operations shall commence or waste accepted at the installation until the Environment Agency has given written approval of the commissioning plan.

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 treatment of incinerator bottom ash (Activity A1)	
Maximum quantity	**Annual throughput shall not exceed 300,000 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 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 – residual IBA received back for recovery

Table S2.3 Permitted waste types and quantities for metal shredding (Activity A2)	
Maximum quantity	**Annual throughput shall not exceed 50,000 tonnes.**
Waste code	**Description**
17	**Construction and demolition wastes (including excavated soil from contaminated sites)**
17 04	**metals (including their alloys)**
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
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 02	ferrous metal
19 12 03	non-ferrous metal
20	**Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**

Table S2.3 Permitted waste types and quantities for metal shredding (Activity A2)	
Maximum quantity	**Annual throughput shall not exceed 50,000 tonnes.**
Waste code	**Description**
20 01	**separately collected fractions (except 15 01)**
20 01 40	metals

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**
Point EM01 on site plan in Schedule 7	Hauck Starjet Burner SJ580	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	10 mg/m^3	Hourly average	Annually	In accordance with Environment Agency Monitoring Guidance Document, M2 – Monitoring of stack emissions to air.
		Sulphur dioxide	144 mg/m^3			
		Carbon monoxide	50 mg/m^3			
		Particulate matter	20 mg/m^3			
Point EM02 on site plan in Schedule 7	Vents from diesel storage tank	No parameters set	No limit set	--	--	--

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**
Transfer of water off-site by tankers	Wedge pit lagoons	No parameter set	No limit set	--	--	--

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
Process building; External storage areas; Wedge pit lagoons	Odour	Two times per day	Olfactory monitoring	Odour detection at the site boundary
Process building; External storage areas; Wedge pit lagoons	Dust	Two times per day	Visual assessment	Dust detection at the site boundary
Oil storage tanks, site surfacing	Integrity checks	Weekly	Visual assessment	--
Wedge pit lagoons	Level checks	Daily	Visual assessment	--

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**
Emissions to air Parameters as required by condition 3.5.1.	EM01	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	**Units**
Incinerator bottom ash processed	tonnes
Incinerator bottom ash aggregate recovered	tonnes
Ferrous metals recovered	tonnes
Non-ferrous metals recovered	tonnes
Process water tankered off-site	tonnes or m^3

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

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form air 1 or other form as agreed in writing by the Environment Agency	16/07/15
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	16/07/15
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	16/07/15
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	16/07/15
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	
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.

“baling” means baling that utilises a hydraulic machine that using compressive forces compacts various materials into regular-shaped dense bales (typically a cube). Bales may be belted with straps or steel wire to keep the bale in its compacted state; although for most metal bales this is not necessary. Baled scrap metal may be easier to handle, store and transport than loose scrap.

“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.

“compacting” means compacting involving the flattening or crushing of compactable metal wastes to aid storage and economic transportation to the scrap processor; it is often a preparation for shredding. Compacting may be achieved using a waste handler’s loading shovel (known as “tapping”) or specially-designed hydraulic flattener.

“cutting” means cutting typically utilising either an oxy-acetylene gas cutting torch or abrasive disc cutter to cut and/or resize large pieces of scrap metal into more manageable sizes; powder torches and plasma torches may be used to cut heat-resistant scrap e.g. pig iron, copper, bronze).

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

“emissions 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.

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

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

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

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

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

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

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

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

“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.

“shearing” means utilises a range of hydraulic machinery that comprise hard steel blades which cut metals into manageable sizes. It may be hand-held, static or attached to mobile plant (e.g. cranes).

“sorting” means sorting that may be undertaken by hand or machinery. Sorting enables materials to be processed and recycled appropriately. It may involve separation of different waste types or the separation of different metal types including different ferrous metals, non-ferrous metals and non-metallic materials (e.g. paper and plastic). The sorted metals are graded by visual inspection, supplemented by chemical and other laboratory tests. The physical sorting may be assisted by conveyors and electromagnets.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

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

“year” means calendar year ending 31 December.

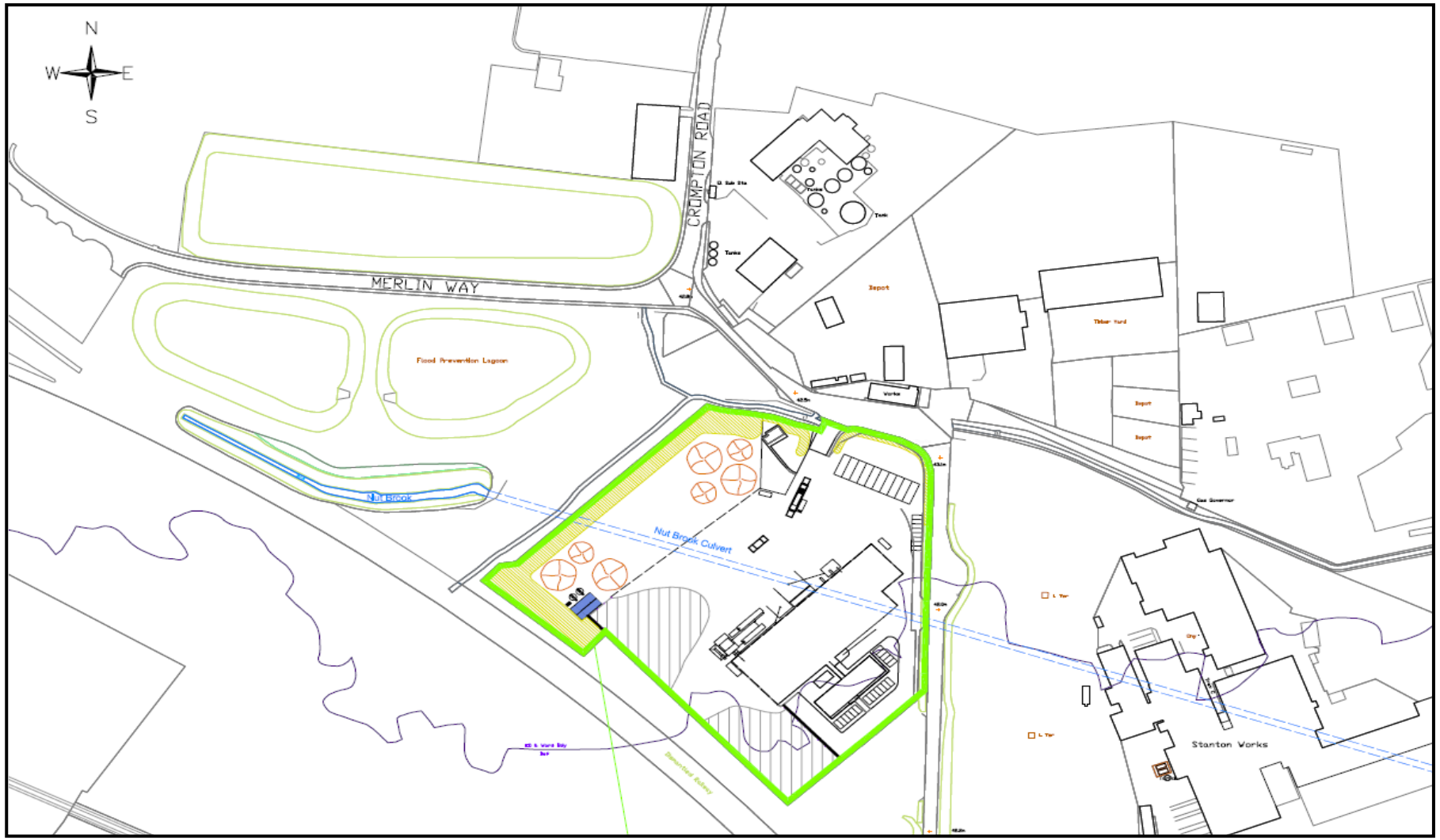
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

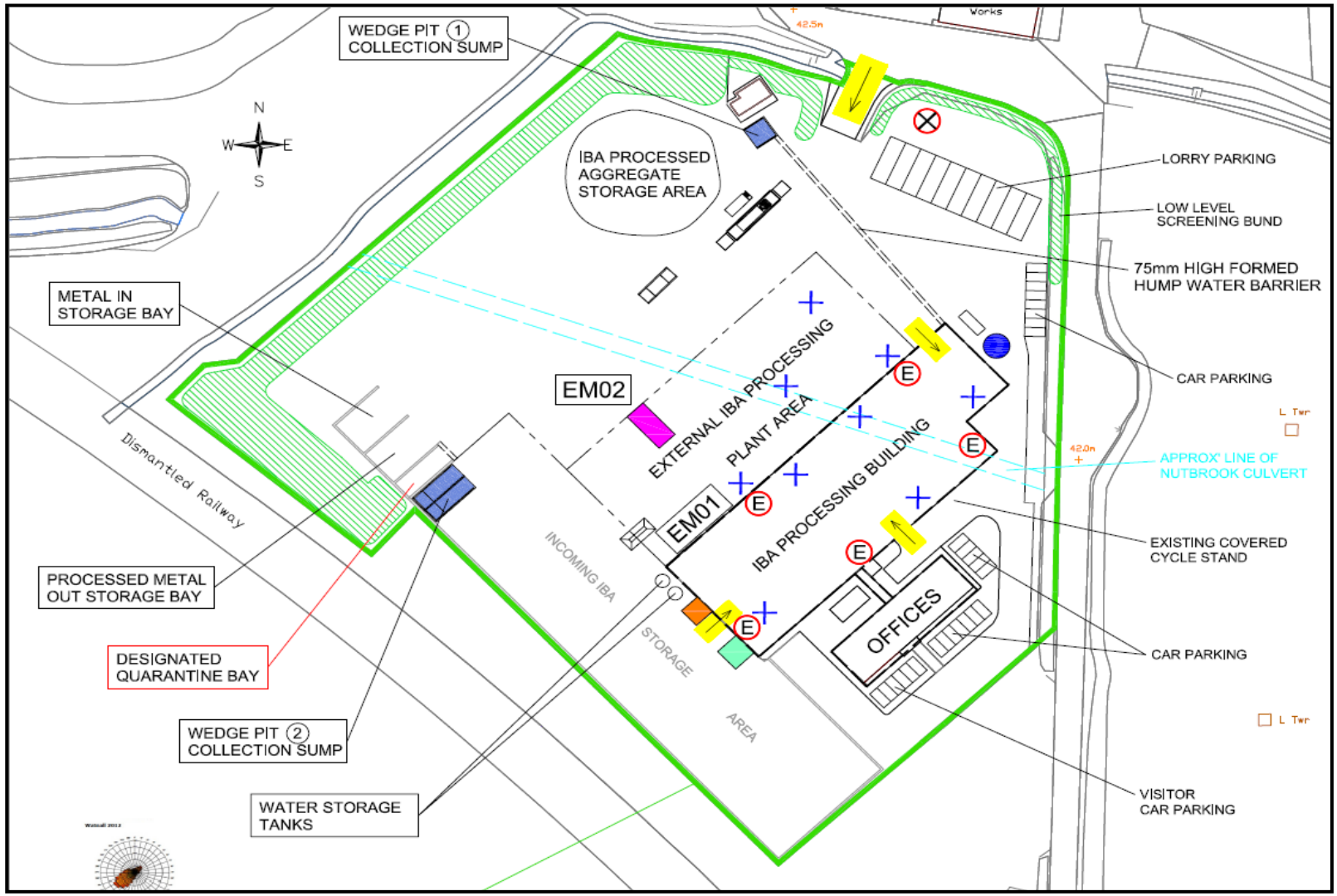
- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration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

Schedule 7 – Site plan

Site location plan



Site layout plan



END OF PERMIT.

Permit Number:	**EPR/MP3430AM/A001**	**Operator:**	**Johnsons Aggregates and Recycling Limited**
Facility:	**Johnsons Aggregates and Recycling Limited – The Urban Midland Mine**	**Form Number:**	**Air1 / 16/07/15**

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
EM01	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)		1 hour period				
	Sulphur dioxide						
	Carbon monoxide						
	Particulate matter						

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number:	**EPR/MP3430AM/A001**	**Operator:**	**Johnsons Aggregates and Recycling Limited**
Facility:	**Johnsons Aggregates and Recycling Limited – The Urban Midland Mine**	**Form Number:**	**WaterUsage1 / 16/07/17**

Reporting of Water Usage for the year

Water Source	**Usage (m^3/year)**	**Specific Usage (m^3/unit output)**
Mains water		
Site borehole		
River abstraction		
TOTAL WATER USAGE		

Operator's comments:

Signed …… Date……..

(authorised to sign as representative of Operator)

Permit Number:	**EPR/MP3430AM/A001**	**Operator:**	**Johnsons Aggregates and Recycling Limited**
Facility:	**Johnsons Aggregates and Recycling Limited – The Urban Midland Mine**	**Form Number:**	**EnergyUsage1 / 16/07/15**

Reporting of Energy Usage for the year

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

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)

Permit Number:	**EPR/MP3430AM/A001**	**Operator:**	**Johnsons Aggregates and Recycling Limited**
Facility:	**Johnsons Aggregates and Recycling Limited – The Urban Midland Mine**	**Form Number:**	**Performance1 / 16/07/15**

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

Parameter	**Units**
Raw material used	tonnes or m^3

Operator's comments:

Signed …… Date……..

(Authorised to sign as representative of Operator)