

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

JG Pears (Newark) Limited
J G Pears Newark Animal Rendering
Marnham Road
Low Marnham
Newark
Nottinghamshire
NG23 6SP

Permit number

EPR/AP3436DG

J G Pears Newark Animal Rendering

Permit number EPR/AP3436DG

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows:

J G Pears Newark Animal Rendering is an installation operated by J G Pears (Newark) Ltd south west of the village of Low Marnham, approximately centred on National Grid Reference SE 12345 67899.

The installation is a Category 3 animal by-products processing plant which processes poultry and mixed species by-products (including offal, skin, carcase and off-cuts), poultry and mixed species blood, and poultry feathers to produce animal feed (meal), oils (tallow) or a liquid agricultural fertiliser.

The schedule 1 listed activities are as follows:

- Section 6.8 A(2)(a) Disposing of or recycling animal carcasses or animal waste by rendering at plant or in a small waste incineration plant, where the plant or small waste incineration plant has a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.
- Section 6.8 Part A(1)(c) Disposing of or recycling animal carcasses or animal waste, other than by rendering in a small waste incineration plant, at a plant with a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.
- Section 5.4 Part A(1)(b)(i) – recovery or a mix of recovery and disposal of non-hazardous waste via biological treatment in a plant with capacity >75t/d.

The main processes are delivery, receipt and storage of raw materials; product processing (cooking, drying and milling) and final product storage. There are five process lines a high temperature rendering (poultry) or high temperature drying (blood); high temperature rendering (poultry); feather processing; low temperature rendering line and a the processing of mammalian blood line. The plant has a capacity to process in excess of 12,000 tonnes of animal by-products per week.

Ancillary processes include the operation of 3 x 14MW_{th} boilers; 2 x biofilters; a regenerative thermal oxidiser (RTO); chemical and liquefied natural gas (LNG) / Liquefied petroleum gas (LPG) storage and washing and cleaning.

Steam generation for the cooking process is provided from the site boilers. In the future steam and electricity will be provided by the CHP Plant operated by J G Pears Power (O&M) Limited under permit EPR/MP3235CC. When the CHP plant is undergoing planned maintenance the boilers will be used to provide steam supply for the plant.

The treatment of concentrated odours (high intensity) is through the RTO or CHP plant and other low intensity odorous air is through two biological filters.

Liquid effluent and wash water is treated within the sites effluent treatment plant before being discharged to the River Trent.

The main emissions to air arise from the biofilters and RTO, the boilers and CHP stack.

Emissions to water arise from wash water, water from bunds, biofilters run-off, yard water run-off and condensate which is treated in the effluent treatment plant (ETP) prior to discharge to the River Trent. Roof water is collected separately for reuse or discharge into the River Trent.

There are No Special Areas of Conservation (SAC), No Special Protection Areas (SPA) and No Ramsars within 10km of the installation. In addition there are No Sites of Special Scientific Interest (SSSI) within 2 km of the installation. There are 9 other nature conservation sites within 2km comprising of 9 Local Wildlife Sites

(LWS). An assessment of the impact of emissions has been carried out and the installation is considered to have no adverse effect on the nature conservation sites.

The site is subject to a Climate Change Levy Agreement.

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/AP3436DG/A001	Duly made 30/11/16	Application for an animal rendering facility, which also processes blood and feathers
Additional information received by email	02/03/17	Confirmation of list of wastes to be treated
Response to Schedule 5 No 1 dated 09/03/17	02/04/2017	Revised Site Plan for all operators Drainage Plan Specification of new standby boilers Environmental Noise JG Pears Low Marnham dated 31/03/2017 AS 0578 Noise Management Plan dated 24th March 2017 Version 1 (First draft for client review)
Response to Schedule 5 No 2 dated 27/03/17	Received 13/04/17	Revised Odour Management Plan V2 dated April 2017
Response to mail dated 01/06/2017	Received 06/07/17	Revised Odour Management Plan V3 June 2017
Response to email dated 29/06/17	Received 10/07/2017	Revised Odour Management Plan V8.2 July 2017
Response to email dated 21/06/2017	Received 12/07/17	Revised Noise Management Plan V0.4 dated 11/07/2017
Permit determined (Billing ref. AP3436DG)	22/08/17	Permit issued to J G Pears (Newark) Ltd

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
J G Pears Power (O&M) Ltd	EPR/MP3235CC	22/08/17

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/AP3436DG

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

JG Pears (Newark) Limited (“the operator”),

whose registered office is

Bella Vista Farm Hartcliffe Road

Penistone

Sheffield

South Yorkshire

S36 9FN

company registration number 08575340

to operate part of an installation at

J G Pears Newark Animal Rendering

Marnham Road

Low Marnham

Newark

Nottinghamshire

NG23 6SP

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

Name	Date
J Linton	22/08/2017

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.

1.2 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.

1.5 Multiple operator installations

- 1.5.1 Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

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, which is within the area edged in blue on the site plan that represents the extent of the installation covered by this permit and that of the other operator of the installation.

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.
 - (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 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by 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.

3.4 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.

3.5 Pests

3.5.1 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.

3.5.2 The operator shall:

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

3.6 Fire prevention

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

3.6.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
- (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Monitoring

3.7.1 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, S3.2 and S3.3;
- (b) process monitoring specified in table S3.4;

3.7.2 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.

3.7.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.7.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.7.4 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 and S3.2 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.

4.2.6 The operator shall submit to the Environment Agency an annual report of the efficiency of the biofilters. This shall include but not be limited to, the assessment of the efficiency to reduce odours, the summary of maintenance and any re-commissioning planned or conducted, assessment of back pressure, venting and cracking. Thereafter the operator shall submit the report within one month of the end of each year, unless otherwise agreed in writing by the Environment Agency.

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.

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

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	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	Section 6.8 Part A(1)(C) Disposing of or recycling animal carcasses or animal waste, other than by rendering or by incineration in a small waste incineration plant, at a plant with a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.		Heat treatment activities such as "blood boiling" and hydrolysis of feathers with steam.
A2	Section 6.8 A(2)(a) Disposing of or recycling animal carcasses or animal waste by rendering at plant or in small waste incineration plant, where the plant or small waste incineration plant has a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.	Recycling of animal by-products by rendering.	
A3	Section 5.4 A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents	From production of effluent to re-use on site or disposal to River Trent
Directly Associated Activity			
A4	Handling and storage of waste pending recovery or disposal.	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of waste to despatch for treatment or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with sealed drainage system.

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
A5	Odour abatement	The treatment of odorous process fume in two biofilters BF1 and BF2. and regenerative thermal oxidiser (RTO)	From receipt of odorous fume to release of treated waste gases to air. Treatment of high intensity odours to CHP plant (at J G Pears Power (O&M) Limited or RTO.
A6	Backup Steam	The raising of steam from 3 natural gas and tallow fuelled boilers each with a thermal input of 14MWth R1:Use principally as a fuel to generate steam	From receipt of fuel to emission of waste gases to air.
A7	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, ferric chloride, activated carbon, diesel.	From the receipt of raw materials to despatch for use within the facility.
A8	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in a balancing storage tank.	From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility or discharge off-site to River Trent.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Responses to question 3a in the Part B3 application form and Supporting Information for IPPC Application for a Rendering Facility JG Pears (Newark) Ltd Document dated 20 Sept 2016	Duly made 30/11/2016
Additional information	Confirmation of waste codes	02/03/17
Response to Schedule 5 No 1 dated 09/03/17	Revised Site Plan for all operators Drainage Plan Specification of new standby boilers	02/04/2017
Response to email dated 29/06/17	Revised Odour Management Plan V4 July 2017	10/07/2017
Response to emails dated 21/06/2017 & 10/07/17	Revised Noise Management Plan V0.4 Final July 2017	12/07/2017

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall submit a written report to the Environment Agency on the effectiveness of the noise attenuation measures installed. The report shall include the results of noise measurements over a range of operational and atmospheric conditions and shall demonstrate that the noise attenuation is at least as effective as that predicted in the Environmental Noise Assessment JG Pears Low Marnham dated 31/03/2017.	Within 6 months of completion of commissioning of the CHP plant
IC2	The Operator shall submit a written report to the Environment Agency on the implementation of its Environmental Management System and the progress made in the certification of the system by an external body or if appropriate submit a schedule by which the EMS will be certified.	Within 12 months of the date of issue of permit

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel Oil	< 0.1% Sulphur content
LNG/LPG	< 0.1% Sulphur content
Tallow fuel (Meeting the Environment Agency End of waste Test (EOW))	< 0.015% Chlorine content
Caustic soda (sodium hydroxide) used in the ETP	< 0.3ppm Mercury content
Animal By Products (as a raw material)	

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A2-A5 [Point A2-A5 on site plan in Schedule 7]	Auxiliary boiler 1-3 and RTO	No parameter set	No limit set			
A6 & A7 [Point A6 & A7) on site plan in schedule 7]	Biofilter stack or vent(s)	Odour concentration	OUE	Instantaneous	Annual	Olfactory
Vents from tank(s)	Oil/Fuel Storage tank(s)	No parameter set	No limit set	--	--	--

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on document effluent treatment plant dated 2/04/17 emission to River Trent	Effluent treatment plant	Total daily volume of discharge	2160 m ³ /day	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme
		Maximum rate of discharge	90 m ³ /hr	Instantaneous (spot sample)	Continuous and integrated daily flow rate	
		Biochemical Oxygen Demand for 5 days (BOD5)	20mg/l	Weekly analysis, reported as flow weighted monthly averages	Daily flow weighted/composite sample	BS EN 1899-1 BS EN 1899-2 BS EN 25814:1992

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on document effluent treatment plant dated 2/04/17 emission to River Trent	Effluent treatment plant	Total suspended solids	30 mg/l	Weekly analysis, reported as flow weighted monthly averages	Daily flow weighted/ composite sample	BS EN 872
		Ammonia (as N)	10 mg/l	Weekly analysis, reported as flow weighted monthly averages	Daily flow weighted/ composite sample	As described in Guidance M18
		pH	5-9	Instantaneous	Continuous	
		Temperature	28°C	Periodic	Daily	
W1 on document effluent treatment plant dated 2/04/17 emission to River Trent	Clean surface waters held in a balancing tank prior to discharge to the River Trent.	No parameters set	No limit set	-	Weekly	Visual assessment

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Animal rendering buildings	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Gas inlets of Biofilters 1 and 2	Flow rate (fan speed)	Continuous/daily		Biofilter shall be regularly checked and maintained to
	Temperature	Continuous/daily		

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
	pH	Continuous/daily		ensure appropriate temperature and moisture content
Biobed of Biofilters 1 and 2	Recirculation pump flow	Daily	None specified	
	Temperature (recirculation pump)	Daily	Temperature probe	
	Tank level	Daily		
	Moisture content	Daily		
	Back pressure	Daily		
	Media inspection	Daily	Visual inspection	No compaction
	Functioning of water sprays	Daily	Visual inspection	

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to water Parameters as required by condition 3.7.1	W1	Every 6 months	1 January, 1 July
Biofilters efficiency Parameters as required by condition 4.2.6	Biofilter(s)	Every 12 months	1 January

Parameter	Units
Total raw materials received and processed	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes or m ³
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m ³
Auxiliary boiler(s) usage	Annually	hours
Smoke test of the flow of air through the biofilter beds	Annually	
Biofilter Efficiency as per condition 4.2.6	Annually	ouE/m ³
Temperature of Auxiliary Boilers and duration	When used for odour abatement	°C and hours
Temperature of RTO and duration	When used for odour abatement	°C and hours

Media/parameter	Reporting format	Date of form
Water	Form water 1 or other form as agreed in writing by the Environment Agency	21/08/17
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	21/08/17
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	21/08/17
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	21/08/17

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

“animal waste” means any waste consisting of animal matter that has not been processed into food for human consumption.

“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.

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

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

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

“emissions to land” includes emissions to groundwater.

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

“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.

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

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

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

“pests” means Birds, Vermin and Insects.

“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.

“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.

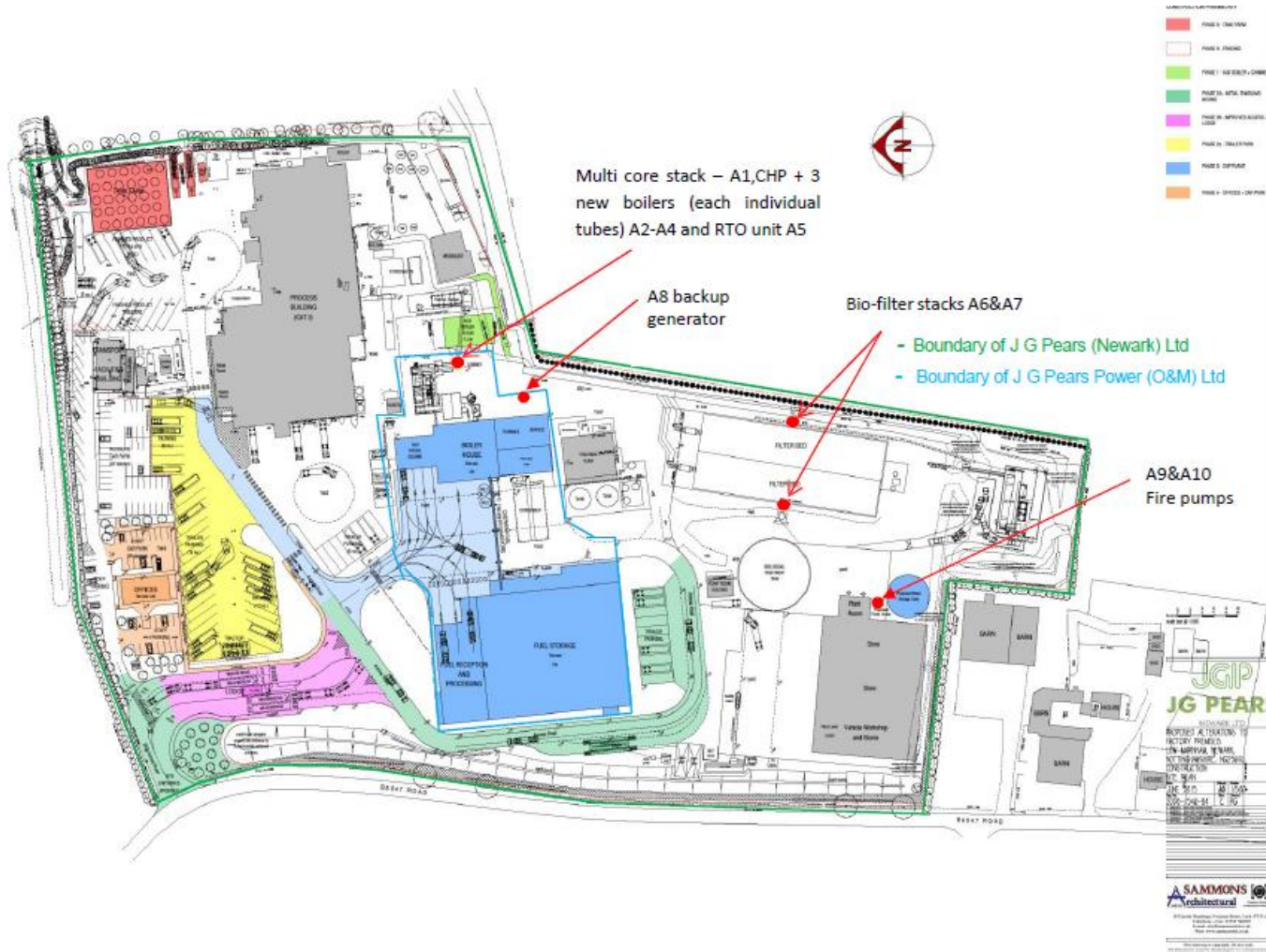
“year” means calendar year ending 31 December.

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



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