

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Sterling Pharma Solutions Limited
Sterling Pharma Solutions Dudley Installation
Dudley
Cramlington
Northumberland
NE23 7QG

Variation application number

EPR/AP3234LG/V007

Permit number

EPR/AP3234LG

Sterling Pharma Solutions Dudley Installation

Permit number EPR/AP3234LG

Introductory note

This introductory note does not form a part of the notice

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

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

This variation permits treatment of Dudley site generated and third-party wastewater, particularly containing solvents, through an anaerobic digestion pre-treatment process added to the existing Biological Treatment Plant. Biogas generated is upgraded and injected into the national grid. The digestate formed in the anaerobic process will be handled by the existing solids dewatering and disposal system in the existing Biological Treatment Plant.

The schedules specify the changes made to the permit.

The Dudley Installation is situated on the edge of the village of Dudley, near to Cramlington. The Installation occupies an area of approximately 17 hectares. Areas surrounding the Installation consist of a mixture of light industrial, residential and agricultural uses.

The installation manufactures a range of relatively low volume speciality organic fine chemical products including for the pharmaceutical sector.

All processes are operated on a batch basis and involve traditional stirred tank reactor technology. There are a number of reactor streams available for use across the installation, grouped into plant areas.

Raw materials comprise liquid reagents (stored either in drums, portable bulk containers, or in dedicated bulk storage tanks), solids (stored in bags or kegs), and some gases (stored compressed in cylinders or liquefied in purpose-designed bulk storage facilities). These reagents are mixed in reactors to produce the desired chemical reactions. Heating or cooling can be applied to the reactors as necessary. Product can be separated from unused reagents, solvents and by-products by extraction, phase separation, distillation, or filtration techniques. Separated products can be further purified by washing, phase extraction, recrystallisation, and drying. Each reactor stream is generally served by reagent feed systems, reactor jacket heating/cooling services, overhead condensers, receiver vessels, nitrogen purging and vacuum services. Multi-stage and/or refrigerated condensers can be employed to contain volatile materials, and wet scrubbers and carbon adsorbers can be employed to further abate releases to air, as necessary. The installation operates a multi-product protocol.

Liquid effluent streams that are amenable to biological destruction are routed to the site biological treatment plant, prior to discharge to Northumbrian Water Ltd sewer as trade effluent. This can include some waste solvents treatable in the anaerobic digestion plant. More recalcitrant materials, including other waste solvents, are sent for off-site disposal or recovery/recycling. Liquid effluent also includes receipt and processing of liquid waste arising from third party sources that is subject to acceptance testing on arrival.

Steam is raised for heating duties at the site in a Combined Heat and Power plant and 3 boilers, which are fired on natural gas.

Emissions to air from the installation activities consist mainly of volatile organic compounds (VOCs), including dichloromethane, as well as ammonia. Some acid gases such as hydrogen chloride, nitrogen dioxide, and sulphur dioxide, are also emitted, but in relatively small amounts.

The site is approximately 8km from Northumbria Coast Special Protected Area/Ramsar and within 2km of Arcot Hall Grassland and Ponds Site of Special Scientific Interest, Annitsford Pond Local Nature Reserve and several Local Wildlife Sites.

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

Status log of the permit		
Description	Date	Comments
Application BT0537 received	27/08/03	
Request to extend determination to 28/02/04	15/12/03	Request accepted 22/12/03
Request for information	12/02/04	Responses dated 23/04/04 and 07/05/04
Request to extend determination to 30/06/04	16/02/04	Request accepted 23/02/04
Further information provided by the applicant	09/06/04	
Permit determined	29/06/04	
Application for variation GP3630BL received	24/08/04	
Variation determined	01/09/04	
Application for variation UP3039BQ received	04/10/04	
Further information provided by the applicant	26/11/04	
Variation determined	08/02/05	
Application for variation TP3638SB received	14/02/05	
Further information provided by the applicant	07/04/05	
Variation determined	08/04/05	
Transfer application AP3234LG received	03/04/06	
Transfer issued AP3234LG	10/05/06	Interpreted as EPR/AP3234LG/T001
Application for variation JP3838MZ received (EPR/AP3234LG/V002)	31/10/06	
Request for further information	23/01/07	Response received 23/02/07
Variation JP3838MZ issued	20/12/07	Interpreted as EPR/AP3234LG/V002
Application for variation XP3433GL received (EPR/AP3234LG/V003)	17/07/08	
Variation issued	07/01/09	Interpreted as EPR/AP3234LG/V003
Agency variation determined EPR/AP3234LG/V004	13/11/13	Environment Agency variation to implement the changes introduced by IED
Notified of change of company name	22/09/16	Name changed to Sterling Pharma Solutions Limited

Status log of the permit		
Description	Date	Comments
Variation issued as EPR/AP3234LG/V005	04/11/16	Varied permit issued to Sterling Pharma Solutions Limited
Application EPR/AP3234LG/V006 (variation and consolidation)	Duly made 22/07/21	Application to vary to permit operation of new Medium Combustion Plant.
Variation determined and consolidation issued EPR/AP3234LG	04/11/21	Varied and consolidated permit issued in modern format.
Application EPR/AP3234LG/V007 (variation and consolidation)	Duly Made 07/03/22	Application to add anaerobic digestion pre-treatment process to the existing biological treatment plant.
Schedule 5 notice issued	12/05/22	Response received 17/06/22 (reference 4 - M1 Monitoring point assessment received 08/08/22)
Request for further information issued	11/08/22	Response received 18/08/22 (Qus 2 Waste Acceptance codes and 3 Recovery vs Disposal classification) and 26/08/22 (Qu1 site plan)
Variation issued EPR/AP3234LG/V007 (billing ref. BP3041QM)	26/10/22	Varied and consolidated permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/AP3234LG

Issued to

Sterling Pharma Solutions Limited (“the operator”)

whose registered office is

Dudley
Cramlington
Northumberland
NE23 7QG

company registration number 05712796

to operate a regulated facility at

Sterling Pharma Solutions Dudley Installation
Dudley
Cramlington
Northumberland
NE23 7QG

to the extent set out in the schedules.

The notice shall take effect from 26/10/2022

Name	Date
Kirsty White	26/10/2022

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of an Environment Agency initiated variation:

Table S3.1 referenced in condition 3.5.1

Table S3.2 referenced in condition 3.5.1

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

Condition 1.1.4 (reference to scheduled activities)

Condition 2.1.2 (reference to scheduled activities)

Condition 2.3.5

Table S1.1 referenced in condition 2.1.1

Table S1.2 referenced in condition 2.3.1

Table S1.3 referenced in condition 2.4.1

Table S2.2 referenced in condition 2.3.5

Table S3.1 referenced in condition 3.5.1

Table S3.2 referenced in condition 3.5.1

Table S4.1 referenced in condition 4.2.3

Table S4.3 referenced in condition 4.2.2

Table S4.4 referenced in condition 4.2.3

The following conditions were added as a result of the application by the operator

Table 2.3 referenced in condition

The following conditions are deleted following an Environment Agency initiated variation

Condition 3.1.6

Condition 2.3.3 and Table S1.4

Condition 3.3.2

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/AP3234LG

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AP3234LG/V007 authorising,

Sterling Pharma Solutions Limited (“the operator”),

whose registered office is

**Dudley
Cramlington
Northumberland
NE23 7QG**

company registration number 05712796

to operate an installation at

**Sterling Pharma Solutions Dudley Installation
Dudley
Cramlington
Northumberland
NE23 7QG**

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

Name	Date
Kirsty White	26/10/2022

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 For the activities referenced AR5 to AR8 in schedule 1 table S1.1 the operator shall comply with the requirements of an approved competence scheme or other approval issued by the Environment Agency.

1.2 Energy efficiency

- 1.2.1 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 Multi product protocol

1.5.1 Where the operator proposes to make a change under a multi-product protocol that is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) the Environment Agency shall be notified of the proposed change;

(b) the notification shall contain a description of the change including: an assessment of its environmental impact; any relevant supporting assessments and drawings; and the proposed implementation date;

(c) the change shall not be implemented unless approved in writing by the Environment Agency;

(d) as from any approved implementation date, the operator shall operate in accordance with the changed multi product protocol in place of the previously approved version.

2 Operations

2.1 Permitted activities

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

2.1.2 For the activities referenced AR5 to AR8 in schedule 1, table S1.1 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 The Operator shall comply with the requirements specified in Table S1.4, which supplement or replace emission limit values.

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

- 2.3.5 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2, or table S2.3 if approved under Improvement Condition IC3; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.8 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

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 Where a substance is specified in schedule 3 table S3.2 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.
- 3.1.4 Total annual emissions from the emission point(s) set out in schedule 3 table S3.1 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.5 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.

3.4.2 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.

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 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 For the activities referenced AR5 to AR8 in schedule 1, table S1.1, 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 an annual solvent management plan in order to demonstrate compliance with the requirements of the Industrial Emissions Directive, by 31 January each year in respect of the previous year.

4.3 Notifications

- 4.3.1 In the event:

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

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

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

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

Where the operator is a registered company:

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

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

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

In any other case:

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

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 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
AR1	S4.1 A(1)(a)(i) – (vii)	Producing organic chemicals such as: (i) hydrocarbons (ii) organic compounds containing oxygen (iii) organic compounds containing sulphur (iv) organic compounds containing nitrogen (v) organic compounds containing phosphorous (vi) organic compounds containing halogens (vii) organometallic compounds	From receipt of raw materials to the despatch of packaged product, including chemical and waste storage, releases to air and Bioplant and disposal of waste.
AR2	S4.7A(1)(a)	Any activity for the manufacture of a chemical which may result in the release of ammonia into the air, other than an activity in which ammonia is only used as a refrigerant.	
AR3	S4.4 A(1)(a)	Producing plant health products or biocides	
AR4	S4.5 A(1)(a)	Producing pharmaceutical products using a chemical or biological process.	
AR5	S5.3 A(1)(a)(i) Disposal of hazardous waste	Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day involving biological treatment (D8 Biological treatment).	Anaerobic and aerobic biological treatment in effluent treatment plant Note 1
AR6	S5.3 A(1)(a)(i) Recovery of hazardous waste	Disposal or recovery of hazardous waste in a facility with a capacity exceeding 10 tonnes per day involving biological treatment (R3 Biological treatment).	Anaerobic biological treatment in effluent treatment plant Note 1
AR7	S5.4 A(1)(a)(i) Disposal of non-hazardous waste	Disposal of non-hazardous waste in a facility with a capacity exceeding 50 tonnes per day by biological treatment (D8 Biological treatment).	Anaerobic and aerobic biological treatment in effluent treatment plant Note 1

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
AR8	S5.4 A(1)(b)(i) Disposal of non-hazardous waste	Recovery of non-hazardous waste in a facility with a capacity exceeding 75 tonnes per day by biological treatment (R3 Biological treatment).	Anaerobic biological treatment in effluent treatment plant Note 1
Other Activities – Activities under Schedule 14 to EP Regulations			
AR9	Solvent emission activities	Producing pharmaceutical products using greater than 50 tonnes solvent per year.	Use of solvents for non-reaction purposes for the manufacture of pharmaceutical products.
Directly Associated Activity			
AR10	Steam and electrical power supply	Medium Combustion Plant consisting of a 7.68MW _{th} CHP engine; 3.58MW _{th} combination boiler and two 4.17MW _{th} standard boilers burning natural gas to provide steam and electricity for use in the stationary technical unit.	Includes oil receipt and storage, and demineralised water plant
AR11	Waste Storage	Storage and handling of solid and liquid waste	Production of waste to despatch from the permitted installation.
AR12	Services and utilities	Ancillary operations as defined in the application, including: nitrogen plant, process heating/cooling/refrigerant systems, vacuum systems, compressed air systems, standby generators.	
AR11	Gas upgrading	Upgrading of biogas to biomethane (including the removal of moisture and other substances such as carbon dioxide, hydrogen sulphide and volatile organic compounds) for injection into the National Grid.	From the receipt of biogas produced at the on-site anaerobic digestion process to injection into the National Grid. This includes return of off-specification biogas for combustion to emergency flare.
<p>Note 1: Waste types to be specified in Schedule 2 Table S2.2, or, if approved under Improvement Condition IC3, waste types in Schedule 2 Table S2.3 after pre-treatment. All accepted waste to be handled in accordance with Environment Agency guidance Chemical Waste: appropriate measures for permitted facilities and be added to the treatment process within 72 hours of receipt.</p>			

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Sections 2.1 to 2.3 inclusive, including appendices 1, 2, 3, 4 and 6; and sections 2.1 to 2.3 inclusive of appendix 5, excluding section 2.3.1.1.	27/08/03
Response to the schedule 4 notice requiring further information	Responses to questions 1, 2, 3, 4, 7, 8, 9, 10, and 11.	23/04/04
Further information provided by the applicant	Attachment 14 and process description documents submitted with the response to the schedule 4 notice requiring further information	23/04/04
Further information provided by the applicant	Supplementary section to chapter 2.7 detailing the operation of the conventional boiler plant. Process description document for process 5002900.	07/05/04
Further information provided by the applicant	Process description document for process 6000601.	09/06/04
Application for variation GP3630BL	All	24/08/04
Application for variation UP3039BQ	All	04/10/04
Further information provided by the applicant	All	26/11/04
Application for variation TP3638SB	All	14/02/05
Further information provided by the applicant	All	07/04/05
Application for variation	Documents submitted as application for Variation JP3838MZ	01/11/06
Additional Information	WS23 PEIAD revision	03/04/07
Multi-Product Protocol	Document entitled "Environmental Impact Assessment – Multi Product Protocol" – GMP022A.	03/04/07
Monitoring Protocol	Document entitled "Management of Emissions Monitoring Programmes" – GMP022C	02/04/07
Vent Registers	Vent diagrams of air emission points. Diagram numbers: D12N00055; D12N00055; D16N00049; D20N00012; D13N00018; D07N00014; D05N00006.	15/06/07
Application for variation EPR/AP3234LG/V003	All information sent as part of the variation submission	08/07/08
Additional information	Amended document SPS-2D Issue 2	12/11/08
Variation application EPR/AP3234LG/V006	Response to question 3, 4 and 6 of Form C3. Energy Centre Summary document (Ref: EC/01) CHP internal layout and external drawings (Ref: C4524-GA-003; C4524-GA-004) Air Quality Assessment	22/07/21
Additional information – response to Schedule 5	Response to questions 1 to 6.	23/08/21

Table S1.2 Operating techniques		
Description	Parts	Date Received
Notice issued 26/07/2021		
Variation application EPR/AP3234LG/V007	Not Duly Made Letter response all parts including updated application forms	04/03/22
Additional Information response to Schedule 5 notice dated 12/05/22	Responses to all 22 questions and submitted supporting documents (including Odour Management Plan)	17/06/22

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	In addition to the requirements of Table 2.2.2.8, the operator shall carry out a programme of emissions monitoring from the Bioplant to sewer, in order to determine the concentrations of List I and List II substances being discharged from the BTP within the discharged effluent. A daily composite sample of the trade effluent shall be analysed once a week, for a period of 6 months to determine the concentrations being discharged to sewer. Following completion of the monitoring exercise a report shall be submitted to the Agency, detailing the screening methodology, results of the analysis, and the EIA on the receiving waters from the discharge of these substances.	Complete
IC2	The operator shall submit a post-commissioning report to the Environment Agency for the anaerobic/aerobic effluent treatment plant for approval, which shall include, but not be limited to: <ul style="list-style-type: none"> • a review of performance of the facility against the conditions of this permit pre-commissioning expectations. • details of procedures developed during commissioning for achieving and demonstrating satisfactory process control. • odour control and abatement systems performance. • progress and plans for transferring control of operation and maintenance of the methane export pipeline to a third party. 	30/04/23
IC3	The operator shall submit to the Environment Agency, for approval, a report of the development of processes and equipment to treat liquid waste containing inorganic contaminants such as mercury, platinum group and other heavy metals. The report shall include, but not be limited to, input and output analyses with removal efficiencies and proposed equipment designs. The Environment Agency shall provide written notification of which, if any, waste acceptance codes in Table S2.3 may be accepted.	30/06/23 or other date agreed in writing with the Environment Agency

Table S1.4 Equivalent parameters and technical measures	
Parameter	Requirement or description of measure, and frequency if relevant.
Dispersion factors	Using the methodology described in SOP022C/004 of the variation application JP3838MZ, site specific dispersion factors shall be used to calculate the process contribution (PC) for each process in advance of that process being operated and submit the information as part of the Process Environmental Impact Assessment (PEIAD) submission.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil used in boilers	Less than 0.1%w/w sulphur content.

Table S2.2 Permitted waste types and quantities for treatment	
Biological treatment of waste material with the following 6 digit codes are permitted to a maximum daily throughput of 600m ³ /day	
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
01 01	wastes from mineral excavation
01 01 02	wastes from mineral non-metalliferous excavation (liquid fraction only)
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 07*	other wastes containing hazardous substances from physical and chemical processing of metalliferous minerals
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 07*	wastes containing hazardous substances from physical and chemical processing of non-metalliferous minerals
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes
01 05 05*	oil-containing drilling muds and wastes
01 05 06*	drilling muds and other drilling wastes containing hazardous substances
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 01	sludges from washing and cleaning
02 01 08*	agrochemical waste containing hazardous substances
02 01 09	agrochemical waste other than those mentioned in 02 01 08
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03	materials unsuitable for consumption or processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation
02 03 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 04	wastes from sugar processing
02 04 02	off-specification calcium carbonate
02 04 03	sludges from on-site effluent treatment
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 05 02	sludges from on-site effluent treatment
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 06 03	sludges from on-site effluent treatment
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 03	wastes from chemical treatment

02 07 04	materials unsuitable for consumption or processing
02 07 05	sludges from on-site effluent treatment
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 02	wastes from wood preservation
03 02 01*	non-halogenated organic wood preservatives
03 02 02*	organochlorinated wood preservatives
03 02 03*	organometallic wood preservatives
03 02 05*	other wood preservatives containing hazardous substances
03 03	wastes from pulp, paper and cardboard production and processing
03 03 02	green liquor sludge (from recovery of cooking liquor)
03 03 05	de-inking sludges from paper recycling
03 03 09	lime mud waste
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	Wastes from the leather, fur and textile industries
04 01	wastes from the leather and fur industry
04 01 01	fleshings and lime split wastes
04 01 02	liming waste
04 01 03*	degreasing wastes containing solvents without a liquid phase
04 01 05	tanning liquor free of chromium
04 01 07	sludges, in particular from on-site effluent treatment free of chromium
04 01 09	wastes from dressing and finishing
04 02	wastes from the textile industry
04 02 10	organic matter from natural products (for example grease, wax)
04 02 14*	wastes from finishing containing organic solvents
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 16*	dyestuffs and pigments containing hazardous substances

04 02 17	dyestuffs and pigments other than those mentioned in 04 02 16
04 02 19*	sludges from on-site effluent treatment containing hazardous substances
04 02 20	sludges from on-site effluent treatment other than those mentioned in 04 02 19
05	Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
05 01	wastes from petroleum refining
05 01 09*	sludges from on-site effluent treatment containing hazardous substances
05 01 10	sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 11*	wastes from cleaning of fuels with bases
05 01 13	boiler feedwater sludges
05 01 14	wastes from cooling columns
05 01 16	sulphur-containing wastes from petroleum desulphurisation
05 06	wastes from the pyrolytic treatment of coal
05 06 04	waste from cooling columns
05 07	wastes from natural gas purification and transportation
05 07 02	wastes containing sulphur
06	Wastes from inorganic chemical processes
06 01	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 01*	sulphuric acid and sulphurous acid
06 01 02*	hydrochloric acid
06 01 03*	hydrofluoric acid
06 01 04*	phosphoric and phosphorous acid
06 01 05*	nitric acid and nitrous acid
06 01 06*	other acids
06 02	wastes from the MFSU of bases
06 02 01*	calcium hydroxide
06 02 03*	ammonium hydroxide
06 02 04*	sodium and potassium hydroxide
06 02 05*	other bases

06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16	metallic oxides other than those mentioned in 06 03 15 (liquid fraction only)
06 05	sludges from on-site effluent treatment
06 05 02*	sludges from on-site effluent treatment containing hazardous substances
06 05 03	sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 02*	wastes containing hazardous sulphides
06 06 03	wastes containing sulphides other than those mentioned in 06 06 02
06 07	wastes from the MFSU of halogens and halogen chemical processes
06 07 04*	solutions and acids, for example contact acid
06 09	wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes
06 09 03*	calcium-based reaction wastes containing or contaminated with hazardous substances
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 10	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
06 10 02*	wastes containing hazardous substances
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides.
07	Wastes from organic chemical processes
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 01*	aqueous washing liquids and mother liquors
07 01 03*	organic halogenated solvents, washing liquids and mother liquors
07 01 04*	other organic solvents, washing liquids and mother liquors
07 01 07*	halogenated still bottoms and reaction residues

07 01 08*	other still bottoms and reaction residues
07 01 11*	sludges from on-site effluent treatment containing hazardous substances
07 01 12	sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 01*	aqueous washing liquids and mother liquors
07 02 03*	organic halogenated solvents, washing liquids and mother liquors
07 02 04*	other organic solvents, washing liquids and mother liquors
07 02 07*	halogenated still bottoms and reaction residues
07 02 08*	other still bottoms and reaction residues
07 02 11*	sludges from on-site effluent treatment containing hazardous substances
07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 14*	wastes from additives containing hazardous substances
07 02 15	wastes from additives other than those mentioned in 07 02 14
07 03	wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 01*	aqueous washing liquids and mother liquors
07 03 03*	organic halogenated solvents, washing liquids and mother liquors
07 03 04*	other organic solvents, washing liquids and mother liquors
07 03 07*	halogenated still bottoms and reaction residues
07 03 08*	other still bottoms and reaction residues
07 03 11*	sludges from on-site effluent treatment containing hazardous substances
07 03 12	sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04	wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 01*	aqueous washing liquids and mother liquors
07 04 03*	organic halogenated solvents, washing liquids and mother liquors
07 04 04*	other organic solvents, washing liquids and mother liquors
07 04 07*	halogenated still bottoms and reaction residues
07 04 08*	other still bottoms and reaction residues

07 04 11*	sludges from on-site effluent treatment containing hazardous substances
07 04 12	sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05	wastes from the MFSU of pharmaceuticals
07 05 01*	aqueous washing liquids and mother liquors
07 05 03*	organic halogenated solvents, washing liquids and mother liquors
07 05 04*	other organic solvents, washing liquids and mother liquors
07 05 07*	halogenated still bottoms and reaction residues
07 05 08*	other still bottoms and reaction residues
07 05 11*	sludges from on-site effluent treatment containing hazardous substances
07 05 12	sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 13*	solid wastes containing hazardous substances
07 05 14	solid wastes other than those mentioned in 07 05 13
07 06	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01*	aqueous washing liquids and mother liquors
07 06 03*	organic halogenated solvents, washing liquids and mother liquors
07 06 04*	other organic solvents, washing liquids and mother liquors
07 06 07*	halogenated still bottoms and reaction residues
07 06 08*	other still bottoms and reaction residues
07 06 11*	sludges from on-site effluent treatment containing hazardous substances
07 06 12	sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 01*	aqueous washing liquids and mother liquors
07 07 03*	organic halogenated solvents, washing liquids and mother liquors
07 07 04*	other organic solvents, washing liquids and mother liquors
07 07 07*	halogenated still bottoms and reaction residues
07 07 08*	other still bottoms and reaction residues
07 07 11*	sludges from on-site effluent treatment containing hazardous substances
07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11

08	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
08 01	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances
08 01 16	aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances
08 01 18	wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 01 21*	waste paint or varnish remover
08 02	wastes from MFSU of other coatings (including ceramic materials)
08 02 02	aqueous sludges containing ceramic materials
08 03	wastes from MFSU of printing inks
08 03 07	aqueous sludges containing ink
08 03 08	aqueous liquid waste containing ink
08 03 12*	waste ink containing hazardous substances
08 03 13	waste ink other than those mentioned in 08 03 12
08 03 14*	ink sludges containing hazardous substances
08 03 15	ink sludges other than those mentioned in 08 03 14
08 03 16*	waste etching solutions
08 03 19*	disperse oil
08 04	wastes from MFSU of adhesives and sealants (including water proofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
08 04 13*	aqueous sludges containing adhesives or sealants containing organic solvents or other hazardous substances
08 04 14	aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other hazardous substances
08 04 16	aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
09	Wastes from the photographic industry
09 01	wastes from the photographic industry
09 01 01*	water-based developer and activator solutions
09 01 02*	water-based offset plate developer solutions
09 01 03*	solvent-based developer solutions
09 01 04*	fixer solutions
09 01 05*	bleach solutions and bleach fixer solutions
09 01 06*	wastes containing silver from on-site treatment of photographic wastes
09 01 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
10	Wastes from thermal processes
10 01	wastes from power stations and other combustion plants (except 19)
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 09*	sulphuric acid
10 01 18*	wastes from gas cleaning containing hazardous substances
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 20*	sludges from on-site effluent treatment containing hazardous substances
10 01 21	sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 22*	aqueous sludges from boiler cleansing containing hazardous substances
10 01 23	aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 26	wastes from cooling-water treatment
10 02	wastes from the iron and steel industry

10 02 11*	wastes from cooling-water treatment containing oil
10 02 12	wastes from cooling-water treatment other than those mentioned in 10 02 11
10 03	wastes from aluminium thermal metallurgy
10 03 27*	wastes from cooling-water treatment containing oil
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 04	wastes from lead thermal metallurgy
10 04 09*	wastes from cooling-water treatment containing oil
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 08*	wastes from cooling-water treatment containing oil
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 06	wastes from copper thermal metallurgy
10 06 09*	wastes from cooling-water treatment containing oil
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 07*	wastes from cooling-water treatment containing oil
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 19*	wastes from cooling-water treatment containing oil
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 13*	waste binders containing hazardous substances (liquid fraction only)
10 09 14	waste binders other than those mentioned in 10 09 13 (liquid fraction only)
10 10	wastes from casting of non-ferrous pieces
10 10 13*	waste binders containing hazardous substances (liquid fraction only)
10 10 14	waste binders other than those mentioned in 10 10 13 (liquid fraction only)
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 12	wastes from glazing other than those mentioned in 10 12 11

10 12 13	sludge from on-site effluent treatment
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing (liquid fraction only)
10 13 04	wastes from calcination and hydration of lime (liquid fraction only)
10 13 07	sludges and filter cakes from gas treatment (liquid fraction only)
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10 (liquid fraction only)
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
11 01	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 05*	pickling acids
11 01 06*	acids not otherwise specified
11 01 07*	pickling bases
11 01 08*	phosphatising sludges
11 01 11*	aqueous rinsing liquids containing hazardous substances
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 13*	degreasing wastes containing hazardous substances
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing hazardous substances
11 01 98*	other wastes containing hazardous substances
11 03	sludges and solids from tempering processes
11 03 02*	other waste
11 05	wastes from hot galvanising processes
12	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 06*	mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions)

12 01 08*	machining emulsions and solutions containing halogens
12 01 09*	machining emulsions and solutions free of halogens
12 01 10*	synthetic machining oils
12 01 19*	readily biodegradable machining oil
12 03	wastes from water and steam degreasing processes (except 11)
12 03 01*	aqueous washing liquids
12 03 02*	steam degreasing wastes
13	Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19)
13 01	waste hydraulic oils
13 01 01*	hydraulic oils, containing PCBs
13 01 04*	chlorinated emulsions
13 01 05*	non-chlorinated emulsions
13 01 09*	mineral-based chlorinated hydraulic oils
13 01 10*	mineral based non-chlorinated hydraulic oils
13 01 11*	synthetic hydraulic oils
13 01 12*	readily biodegradable hydraulic oils
13 01 13*	other hydraulic oils
13 02	waste engine, gear and lubricating oils
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
13 02 06*	synthetic engine, gear and lubricating oils
13 02 07*	readily biodegradable engine, gear and lubricating oils
13 02 08*	other engine, gear and lubricating oils
13 03	waste insulating and heat transmission oils
13 03 01*	insulating or heat transmission oils containing PCBs
13 03 06*	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils

13 03 08*	synthetic insulating and heat transmission oils
13 03 09*	readily biodegradable insulating and heat transmission oils
13 04	bilge oils
13.04 01*	bilge oils from inland navigation
13 04 02*	bilge oils from jetty sewers
13 04 03*	bilge oils from other navigation
13 05	oil/water separator contents
13 05 02*	sludges from oil/water separators
13 05 03*	interceptor sludges
13 05 06*	oil from oil/water separator
13 05 07*	oily water from oil/water separators
13 05 08*	mixtures of wastes from grit chambers and oil/water separators
13 07	wastes of liquid fuels
13 07 03*	other fuels (including mixtures)
13 08	oil wastes not otherwise specified
13 08 01*	desalter sludges or emulsions
13 08 02*	other emulsions
13 08 99*	wastes not otherwise specified (<i>aqueous wastes containing petrol/diesel oils</i>)
14	Waste organic solvents, refrigerants and propellants (except 07 and 08)
14 06	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 02*	other halogenated solvents and solvent mixtures
14 06 03*	other solvents and solvent mixtures
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 13*	brake fluids
16 01 14*	antifreeze fluids containing hazardous substances
16 01 15	antifreeze fluids other than those mentioned in 16 01 14

16 03	off-specification batches and unused products
16 03 05*	organic wastes containing hazardous substances
16 03 06	organic wastes other than those mentioned in 16 03 05
16 05	gases in pressure containers and discarded chemicals
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06	batteries and accumulators
16 06 06*	separately collected electrolyte from batteries and accumulators
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 08*	wastes containing oil
16 07 09*	wastes containing other hazardous substances
16 08	spent catalysts
16 08 06*	spent liquids used as catalysts
16 09	oxidising substances
16 09 03*	peroxides, for example hydrogen peroxide
16 09 04*	oxidising substances, not otherwise specified
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 03*	aqueous concentrates containing hazardous substances
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 05*	dredging spoil containing hazardous substances (liquid fraction only)
17 05 06	dredging spoil other than those mentioned in 17 05 05 (liquid fraction only)
17 05 07*	track ballast containing hazardous substances (liquid fraction only)

17 05 08	than those mentioned in 17 05 07 (liquid fraction only)
18	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06*	chemicals consisting of or containing hazardous substances
18 01 07	chemicals other than those mentioned in 18 01 06
18 01 09	medicines other than those mentioned in 18 01 08
18 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 05*	chemicals consisting of or containing hazardous substances
18 02 06	chemicals other than those mentioned in 18 02 05
18 02 08	medicines other than those mentioned in 18 02 07
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 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 01 17*	pyrolysis wastes containing hazardous substances (liquid fraction only)
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17 (liquid fraction only)
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 07*	oil and concentrates from separation
19 02 08*	liquid combustible wastes containing hazardous substances
19 04	vitrified waste and wastes from vitrification
19 04 04	aqueous liquid wastes from vitrified waste tempering
19 05	wastes from aerobic treatment of solid wastes
19 05 02	non-composted fraction of animal and vegetable waste (liquid fraction only)
19 05 03	off-specification compost (liquid fraction only)
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste
19 06 04	digestate from anaerobic treatment of municipal waste

19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 07	landfill leachate
19 07 02*	landfill leachate containing hazardous substances
19 07 03	landfill leachate other than those mentioned in 19 07 02
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
19 08 07*	solutions and sludges from regeneration of ion exchangers
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 10*	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
19 08 11*	sludges containing hazardous substances from biological treatment of industrial waste water
19 08 12	sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 13*	sludges containing hazardous substances from other treatment of industrial waste water
19 08 14	sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02	sludges from water clarification
19 09 03	sludges from decarbonation
19 10	wastes from shredding of metal-containing wastes
19 10 05*	other fractions containing hazardous substances
19 10 06	other fractions other than those mentioned in 19 10 05
19 11	wastes from oil regeneration
19 11 03*	aqueous liquid wastes
19 11 04*	wastes from cleaning of fuel with bases
19 11 05*	sludges from on-site effluent treatment containing hazardous substances
19 11 06	sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 11 07*	wastes from flue-gas cleaning

19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 10	combustible waste (refuse derived fuel)
19 13	wastes from soil and groundwater remediation
19 13 03*	sludges from soil remediation containing hazardous substances
19 13 04	sludges from soil remediation other than those mentioned in 19 13 03
19 13 05*	sludges from groundwater remediation containing hazardous substances
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing hazardous substances
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 08	biodegradable kitchen and canteen waste
20 01 13*	solvents
20 01 14*	acids
20 01 15*	alkalines
20 01 19*	pesticides
20 01 25	edible oil and fat
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing hazardous substances
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing hazardous substances
20 01 30	detergents other than those mentioned in 20 01 29
20 01 32	medicines other than those mentioned in 20 01 31
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 03	other municipal wastes

20 03 03	street-cleaning residues (liquid fraction only)
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Table S2.3 Permitted waste types and quantities for treatment before addition to the anaerobic/aerobic effluent treatment plant if permitted after completion of IC3	
Waste code	Description
05	Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
05 07	wastes from natural gas purification and transportation
05 07 01*	wastes containing mercury
06	Wastes from inorganic chemical processes
06 03	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 13*	solid salts and solutions containing heavy metals
06 03 15*	metallic oxides containing heavy metals
06 04	metal-containing wastes other than those mentioned in 06 03
06 04 04*	wastes containing mercury
06 04 05*	wastes containing other heavy metals
10	Wastes from thermal processes
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 11*	wastes from glazing containing heavy metals
11	Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 05*	wastes from copper hydrometallurgical processes containing hazardous substances
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 02 07*	other wastes containing hazardous substances
16	Wastes not otherwise specified in the list
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit) ^{Note 1}	Reference period	Monitoring frequency	Monitoring standard or method		
A1 Dudley 1 Plant on site plan in Schedule 7	All roof vents to air ^{Note 6}	Risk Phrase halogenated R40	100 g/hour (20mg/m ³) ^{Note 3}	Hourly average	As described in PGM022C "Management of Stack Emission Monitoring Programmes" ^{Note 2}	ASTM D6348-03 or other relevant method from Environment Agency guidance, or otherwise as agreed in writing with the Environment Agency		
A2 Dudley 1.5 Plant on site plan in Schedule 7		Risk Phrase R45, R46, R49, R60, R61	10 g/hour (2mg/m ³) ^{Note 4}	Hourly average				
A3 Dudley 2 Plant on site plan in Schedule 7		Class A VOCs (as Carbon); Class B VOCs (as Carbon);	No limit set	Hourly average				
A4 Pilot Plant on site plan in Schedule 7		Organic sulphides and mercaptans (as methyl mercaptan); Amines (as dimethylamine); Halogens (individual species); Hydrogen halides (individual species); Sulphur dioxide; Carbon monoxide; Hydrogen sulphide; Ammonia; Phosphorous compounds Nitrogen oxide (as NO ₂)						
A6 (vent register D07N00014) Bulk Storage Tanks	Solvent tank farm breather vents	No parameters set			-	-	-	-
A8 (x/y co-ordinates: 426004,57443 4) Energy Centre Stack ^{Note 5}	Exhaust gases from CHP gas engine (7.68MW _{th})	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)			95 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14792
		Carbon monoxide	No limit set	Periodic	Every 3 years	MCERTS BS EN 15058		
	Exhaust gases from	Oxides of Nitrogen (NO and NO ₂)	100 mg/m ³	Periodic	Every 3 years	MCERTS BS EN 14792		

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit) ^{Note 1}	Reference period	Monitoring frequency	Monitoring standard or method
	Combination boiler (3.580MW _{th}) Standard boiler 1 (4.17MW _{th}) Standard boiler 2 (4.17MW _{th})	expressed as NO ₂) Carbon monoxide	No limit set	Periodic	Every 3 years	MCERTS BS EN 15058
A9 on site plan in Schedule 7	Biogas Upgrade Unit	No parameters set	-	-	-	-
A10 on site plan in Schedule 7	Odour abatement lava filter	Total Non-Methane Volatile Organic Compounds	No limit set	Periodic	Annual	EN21619
A11 on site plan in Schedule 7	Grid Entry Unit sampler	No parameters set	-	-	-	-
A12 on site plan in Schedule 7	Flare	No parameters set	-	-	-	-
<p>Note 1: See Section 6 for reference conditions.</p> <p>Note 2: The setting of the monitoring programme and priorities shall be as described in Section 4 of PGM022C “Management of Stack Emission Monitoring Programmes”. The parameters to monitor are determined by the processes planned. The potential for harm from a substance should be a factor in setting the monitoring frequency priority.</p> <p>Note 3: For individual monitored sources where the mass release exceeds 100gramme/hour then a concentration limit of 20mg/m³ shall apply.</p> <p>Note 4: For individual monitored sources where the mass release exceeds 10gramme/hour then a concentration limit of 2mg/m³ shall apply.</p> <p>Note 5: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 15% for engines and gas turbines and 3% all other MCPs.</p> <p>Note 6: The point source discharges to air are individual process vents grouped into plants as A1-A4 for reporting reference. Source refers to the vents in use at the time of monitoring.</p>						

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
S1 on site plan in schedule 7	Bioplant Outfall	Flow – m ³ /day	No limit set	Continuous	Continuous and daily integrated	Electromagnetic in-line flowmeter
		Dissolved Organic Carbon (DOC)	600 mg/l	24 hour composite	Daily	BS EN 1484 Note 1
		Suspended Solids	500 mg/l	24hr composite	Daily	EN872
		Ammonia	600 mg/l	24hr composite	Daily	BS 6068-2.7 ISO 5664
S2 on site plan in schedule 7 - discharge to Northumbrian Water Ltd public sewer at Annitsford	Sterling Pharma Solutions Ltd private sewer	No parameters set	-	-	-	-
Note 1: Or other method as agreed in writing with the Environment Agency						

Table S3.3 Annual limits		
Substance	Medium	Limit (including unit)
All solvents subject to SED	Air	15% of solvent input (as defined in the Industrial Emissions Directive Annex VII Part 2)
Dichloromethane	Air	1000 kg/annum
VOC total Class B (expressed as carbon)	Air	125,000 kg/annum
Nitrogen oxide (as NO ₂) Note 1	Air	3800 kg/annum
Ammonia	Air	2500 kg/annum
Note 1: excluding emissions from A8 Energy Centre Stack		

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.	A1-A4	Every 6 months	1 January, 1 July
	A8	Every 3 years	1 January ^{Note1}
	A10	Annual	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 6 months	1 January, 1 July
Note 1 Every 3 rd calendar year after first monitoring of activity AR8.			

Table S4.2: Annual production/treatment	
Parameter	Units
-	-

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total solvent input (as defined under SED) per tonne of product	Annually	Tonnes solvent/tonnes product
Annual liquid waste input to anaerobic treatment process	Annually	m ³
Annual liquid waste input direct to aerobic treatment process	Annually	m ³
Annual effluent discharge to sewer	Annually	m ³
Hazardous waste - not recycled	Annually	tonnes
Hazardous waste - recycled	Annually	tonnes
Use of flare (emission point A12) other than pilot flame.	Annually	Dates and durations (minutes)

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	01/06/22
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	01/06/22
Mass release	Form mass release 1 or other form as agreed in writing by the Agency	01/06/22
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	01/06/22
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	01/06/22
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	01/06/22

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

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

Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“Class A VOCs” and “Class B VOCs” means those volatile organic compounds classified as Medium and Low Impact respectively in DoE report number DoE/HMIP/RR/95/009, “The Categorisation of Volatile Organic Compounds”.

“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 as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016

“emissions to land” includes emissions to groundwater.

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

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

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

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

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

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016

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

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Multi-Product Protocol” (MPP) - means a procedure written by an operator and approved by the Environment Agency, which is referenced in the operational techniques table of this permit. It describes the operator’s management process which can be used to request changes, within the limits in that document only, to the original permit without the need for a formal permit variation application.

“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 as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

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

“year” means calendar year ending 31 December.

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

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

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

When the following terms appear in the waste code list in Schedule 2, table 2.2, for that table/those tables, they have the meaning given below:

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

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

‘PCBs’ means

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

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

‘stabilisation’ means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

'solidification' means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

'partly stabilised wastes' means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as 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, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Emissions to Sewer Reporting Form

Permit number: EPR/AP3234LG

Operator: Sterling Pharma Solutions Limited

Facility name: SPS Dudley Installation

Reporting Form: Sewer1 01/06/22

Reporting of emissions to sewer for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
S1	Flow	No limit set					
	DOC	600 mg/l					
	Suspended Solids	500mg/l					
	Ammonia	600 mg/l					

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as 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, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Mass Release Monitoring Form

Permit number: EPR/AP3234LG

Operator:

Sterling Pharma Solutions Limited

Facility name: SPS Dudley Installation

Reporting Form:

MassRelease1 01/06/22

Reporting of mass emission releases for the year [YYYY]

Substance	Limit Value	Result
VOC total class B (expressed as carbon)	125,000 kg	
Dichloromethane	1000kg	
Nitrogen oxide (as NO ₂)	3800kg	
Ammonia	2500kg	
All solvent subject to IED Chapter V	15% of solvent input	

Operator's comments

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

Water Usage Reporting Form

Permit number: EPR/AP3234LG

Operator: Sterling Pharma Solutions Limited

Facility name: SPS Dudley Installation

Reporting Form: WaterUsage1 01/06/22

Reporting of water usage for the year [YYYY]

Water source	Water usage (m ³)	Specific water usage (m ³ /total pharmaceutical product)
Mains water metered		
D1 Production Plant		
D1.5 Production Plant		
D2 Production Plant		
PP1 Production Plant		
Bioplant		
Others		
TOTAL WATER USAGE		

Operator's comments

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: EPR/AP3234LG

Operator: Sterling Pharma Solutions Limited

Facility name: SPS Dudley Installation

Reporting Form: Energy1 01/06/22

Reporting of energy usage for the year [YYYY]

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/total pharmaceutical product) ²
Electricity imported as delivered	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of 2.4 ¹	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of <i>[specify conversion factor used to convert tonnes to MWh]</i>	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
TOTAL		

Operator's comments

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

¹ Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

² Divide energy consumption by an appropriate unit of raw material processed or product output.

Other Performance Parameters Reporting Form

Permit number: EPR/AP3234LG **Operator:** Sterling Pharma Solutions Limited

Facility name: SPS Dudley Installation **Reporting Form:** Performance1 01/06/22

Reporting of other performance parameters for the year [YYYY]

Parameter	Result
Total pharmaceutical product (tonnes)	
Total tonnes solvent input (as defined under IED Chapter V) per tonne of pharmaceutical product	
Total tonnes solvent released to sewer per tonne of pharmaceutical product	
Annual liquid waste input to anaerobic treatment process (m ³)	
Annual liquid waste input direct to aerobic treatment process (m ³)	
Annual effluent discharge to sewer (m ³)	
Total hazardous waste not recycled (tonnes)	
Total hazardous waste sent for recycling (tonnes)	
Use of flare (emission point A12) other than pilot flame (dates and durations in minutes)	

Operator's comments

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.