

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Mekatek Limited

**Amex Park
Llanstephan Road
Johnstown
Carmarthen
SA31 3NF**

Permit number

EPR/YP3937SH

Amex Park

Permit number EPR/YP3937SH

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows

The site covering an area of approximately 7 hectares, is situated on Amex Park, a small industrial estate in Johnstown (Grid Reference SN 40150 19300). It is approximately 4 kilometres from Carmarthen town centre. The site is based on the site of a previous dairy and its infrastructure and waste water treatment works have been adapted and modified by the permit holder to treat industrial waste effluents.

The site carries out a variety of waste disposal and recovery processes. A summary of these is as follows:

Most of the effluents are delivered to the site by road tanker. Effluents are filtered to remove solids during discharge and then undergo blending with high and low strength effluents in the high strength biodegradable effluent area before they are transferred for treatment into the main biological treatment plant where they undergo aerobic biological treatment. Removed solids are sent for disposal to landfill and the treated effluent is discharged into the River Tywi.

The recovery and disposal of waste oils and oil/water mixtures is carried out in the free oil separation area. The wastes are delivered to the site by road tanker, or in containers. Free oil/water mixtures are discharged to the free oil separation tanks where the oil is separated by gravity and heat which is provided by the on-site boiler. The separated water is filtered to remove solids before being transferred for further treatment in the main biological treatment plant.

The recovered waste oil is sent off-site for further processing or use as an alternative fuel. The oil contaminated solids are transferred for further treatment in the biodegradation facility on-site. The recovery and disposal of soluble waste oils is carried out in the soluble oil facility where the wastes are delivered to the site by road tanker or in containers. On arrival they are discharged into a storage tank where they undergo treatment in the working tank via an ultrafiltration unit. The concentrated oil mixture is pH adjusted to aid further separation. The recovered oil is then sent off site for further processing or for use as an alternative fuel. The separated water is transferred to the main biological treatment plant for further treatment.

The disposal of hazardous drummed and containerised waste is carried out in the transfer facility. These wastes are stored in segregated bays according to their waste type and property, pending onward disposal off-site or disposal or recovery on-site via the waste oil recovery plants, biological treatment plant or biodegradation facility.

The biological treatment of hazardous sludges is carried out in the biodegradation area where waste absorbents and packaging are delivered to the site in containers or skips. The biodegradation facility also accepts oil-contaminated solids from the site's own oil recovery operations. The degradation of wastes involves inoculation with activated sludge from the main biological treatment plant or the use of specific bacterial inoculations. The process also involves mixing, watering and aeration to remove hazardous substances. The degraded wastes are then disposed of off-site to landfill.

A waste activity of asbestos waste transfer station is also carried out at the site.

The site is within the Agency's 1 in 75 years (or 1.3% in a year) or greater floodplain which indicates a significant chance of flooding, particularly for the lower, eastern, sections of the site where the main biological treatment plant is situated.

The River Tywi, which flows north to south beyond the marsh at the eastern end of the site, is a Special Conservation Area (SAC) and is within 1 kilometre of the site. There are also two Sites of Special Scientific Interest (SSSI) within 2 kilometres, east and north east of the site.

The site is situated on a minor aquifer, with soils of high leaching potential, and the underlying geology is that of fluvial glacial sands and gravels underlain by clay units. Within a kilometre south and south west of the site there is housing, a school and a leisure centre.

The whole of the sites surface is sealed with an impermeable pavement with surface water run-off and roof water directed into the on-site treatment systems prior to discharge to the River Tywi.

The only air emissions (excluding fugitive emissions) arise from the boiler stack. Emissions to controlled waters consist of discharges of treated effluents from on-site treatment systems directly into the River Tywi. There are no other process emissions, either to sewer or to land, from the site.

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

Status log of the permit		
Description	Date	Comments
Application received	19/10/05	
Request for further information sent 10/10/05	17/10/05	Response received
Request to extend determination received 06/04/06	19/04/06	Request accepted
Request for further information sent 27/04/06	03/05/06	Response received
Permit determined YP3937SH	16/06/06	
Variation application received	02/01/08	
Variation application duly made	07/01/08	
Schedule 7 Notice: Request for further information sent 14/03/08	03/04/08	Response received
Variation determined EPR/YP3937SH/V002	15/04/08	PAS reference TP3435XD
Regulator Initiated Variation Request EPR/YP3937SH	18/02/10	PAS reference UP3039TW. Variation to: <ul style="list-style-type: none">- revise emission limit values- add additional monitoring requirements

		- update the permit to the current template and consolidated previous variations.
Variation Notice issued EPR/YP3937SH/V003	06/04/10	
Variation application EPR/YP3937SH	Duly Made 18/01/2017	Application to change company's registered address.
Variation issued EPR/YP3937SH/V004	20/01/2017	Varied permit issued to Mekatek Limited
Variation application EPR/YP3937SH	Duly made 22/08/18	Application to add de-foaming agent to treated effluent.
Variation determined EPR/YP3937SH/V005	08/11/18	Variation issued.
Regulation 61 Notice sent to the Operator	05/04/19	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BREF) for Waste Treatment.
Regulation 61 Notice response	27/09/19	Response received from the operator.
Additional information received	07/10/20	Consisting of WT BREF Response to request for further information received 20.08.2020 - DGL.V1.07.10.2020
	27/04/21	Consisting of documents referred to in response of 07/10/2020
	30/04/21	
NRW-initiated variation determined EPR/YP3937SH/V006	25/08/21	Varied and consolidated permit issued to Operator

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/YP3937SH

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/YP3937SH/V006 authorising,

Mekatek Limited (“the operator”),

whose registered office is

MBG House

Unit C Maerdy Industrial Estate

Rhymney

Tredegar

Gwent

Wales

NP22 5PY

company registration number **01905259**

to operate an installation and waste facility at

Amex Park

Llanstephan Road

Johnstown

Carmarthen

SA31 3NF

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

Name	Date
Holly Noble	25/08/21

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

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

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A4) the operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A4) the operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

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

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

- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (A1 to A4) 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
 - (a) 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 Natural Resources Wales.
 - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table(s) S2.1. S2.2, S2.3, S2.4, S2.5, and S2.6; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 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.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

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

2.5 Technical requirements

WEEE storage

- 2.5.1 The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex III of the WEEE Directive.

Hazardous waste storage and treatment

- 2.5.2 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.

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 Total annual emissions from the emission point(s) set out in tables schedule 3 S3.2 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.4 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

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

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1, and S3.2;
 - (b) surface water or groundwater specified in table S3.4;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.

- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.4 unless otherwise agreed in writing by Natural Resources Wales.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales.

3.7 Fire

- 3.7.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.
- 3.7.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention plan which identifies and minimises the risks of fire;
 - (b) Operate the activity in accordance with the fire prevention plan, from the date of submission, unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1 (A1 to A4) a report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 For the following activities referenced in schedule 1, table S1.1 (A1 to A4)
- (a) In the event 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 Natural Resources Wales,
 - (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) in the event of a breach of any permit condition the operator must immediately—
 - (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the

environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 For the following activities referenced in schedule 1, table S1.1 (A8) Natural Resources Wales shall be notified without delay following the detection of:
- (a) 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;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 Natural Resources Wales 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.
- 4.3.7 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) Natural Resources Wales 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.

- 4.3.8 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.4 Interpretation

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

Schedule 1 - Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	Section 5.3 Part A(1)(a)(ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment	<p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>D14: Repackaging prior to submission to any of the operations numbered D1 to D13</p> <p>D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>Transfer Station</p> <p>Activity limit of 150 tonnes at any one time.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - bulking up (D14) - mixing/blending of compatible wastes with same properties and hazards (D13) <p>of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.1</p>
		<p>D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>High Strength Biodegradable Effluent Area</p> <p>Activity limit of 1169.75 tonnes at any one time, consisting of the following tanks:</p> <ol style="list-style-type: none"> 1. HSB A to I (715.75 tonnes at any one time) 2. Tanks SOT A and SOT B (454 tonnes at any one time) <p>Treatment operations shall be limited to manual and/or mechanical mixing/blending of compatible wastes for pH adjustment of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.2</p>

		<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other</p>	<p>Free Oil Separation Area</p> <p>Activity limit of 104.4 tonnes at any one time, in Tanks FOS A to FOS F.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage of oils for onward recovery (R13) - recovery of oil (via settlement, ultrafiltration, mild thermal treatment) (R3) <p>of permitted waste for the purpose of recovery only.</p> <p>Waste types as specified in Table S2.3</p>
		<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other</p>	<p>Soluble Oil Facility</p> <p>Activity limit of 508.4 tonnes at any one time, in Tanks SOT A to SOT H.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage of oils for onward recovery (R13) - recovery of oil (via settlement, ultrafiltration, mild thermal treatment) (R3) <p>of permitted waste for the purpose of recovery only</p> <p>Waste types as specified in Table S2.4</p>
A2	<p>Section 5.3 Part A(1)(a)(iii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving blending or mixing prior to submission to any of the other activities listed in this Section or in Section 5.1</p>	<p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>D14: Repackaging prior to submission to any of the operations numbered D1 to D13</p> <p>D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>Transfer Station</p> <p>Activity limit of 150 tonnes at any one time.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - bulking up (D14) - mixing/blending of compatible wastes with same properties and hazards (D13) <p>of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.1</p>

		<p>D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>High Strength Biodegradable Effluent Area</p> <p>Activity limit of 1169.75 tonnes, consisting of the following tanks:</p> <ol style="list-style-type: none"> 3. HSB A to I (715.75 tonnes at any one time) 4. Tanks SOT A and SOT B (454 tonnes at any one time) <p>Treatment operations shall be limited to manual and/or mechanical mixing/blending of compatible wastes for pH adjustment of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.2</p>
		<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other</p>	<p>Free Oil Separation Area</p> <p>Activity limit of 104.4 tonnes at any one time, in Tanks FOS A to FOS F.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage of oils for onward recovery (R13) - recovery of oil (via settlement, ultrafiltration, mild thermal treatment) (R3) <p>of permitted waste for the purpose of recovery only.</p> <p>Waste types as specified in Table S2.3</p>
		<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other</p>	<p>Soluble Oil Facility</p> <p>Activity limit of 508.4 tonnes at any one time, in Tanks SOT A to SOT H.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage of oils for onward recovery (R13) - recovery of oil (via settlement, ultrafiltration, mild thermal treatment) (R3) <p>of permitted waste for the purpose of recovery only</p> <p>Waste types as specified in Table S2.4</p>

A3	Section 5.3 Part A(1)(a)(iv) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging prior to submission to any of the other activities listed in this Section or in Section 5.1.	<p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>D14: Repackaging prior to submission to any of the operations numbered D1 to D13</p> <p>D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>Transfer Station</p> <p>Activity limit of 150 tonnes at any one time.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - bulking up (D14) - mixing/blending of compatible wastes with same properties and hazards (D13) <p>of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.1</p>
		<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other</p>	<p>Free Oil Separation Area</p> <p>Activity limit of 104.4 tonnes at any one time, in Tanks FOS A to FOS F.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage of oils for onward recovery (R13) - recovery of oil (via settlement, ultrafiltration, mild thermal treatment) (R3) <p>of permitted waste for the purpose of recovery only.</p> <p>Waste types as specified in Table S2.3</p>
		<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other</p>	<p>Soluble Oil Facility</p> <p>Activity limit of 508.4 tonnes at any one time, in Tanks SOT A to SOT H.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage of oils for onward recovery (R13) - recovery of oil (via settlement, ultrafiltration, mild thermal treatment) (R3) <p>of permitted waste for the purpose of recovery only</p> <p>Waste types as specified in Table S2.4</p>

A4 Biological Treatment Plant	Section 5.4 Part A(1)(a)(i) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment.	D8: Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12	Biological Treatment Plant Activity limit of 6179.5 tonnes at any one time, consisting of the following tanks: <ol style="list-style-type: none"> 1. HSB A to I (715.75 tonnes at any one time), 2. BTP 1 to 4 (1089.6 tonnes at any one time), 3. BTP SST 1 to 3 (104.75 tonnes at any one time), 4. Aeration tanks 5 to 7 [Tank 5, Tank 6 and ASTT7](1954 tonnes at any one time), 5. Activated sludge aeration tanks ASTT 8 and ASTT 9 (1362 tonnes at any one time), 6. Primary clarifiers 1 and 2 (544.8 tonnes at any one time), 7. Secondary clarifiers 1 and 2 (408.6 tonnes at any one time) <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - inoculation with bacteria - aeration - sludge activation - settlement - clarification <p>of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.5</p>
--	---	---	--

Directly Associated Activity			
A5	Crushing and compaction of nominally empty drums and containers.	<p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)</p> <p>R4: Recycling/reclamation of metals and metal compounds</p>	<p>Associated with Transfer Station.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - recovery of plastic and plastic packaging - recovery of metal and metal packaging <p>of permitted waste for the purpose of recovery only.</p> <p>Activities:</p> <ul style="list-style-type: none"> - Recovery of plastic and plastic packaging. - Recovery of metal and metal packaging. <p>Waste types 15 01 10* as specified in Table S2.1</p>
A6	Mixing or blending non-hazardous aqueous liquid wastes with aqueous liquid hazardous wastes	D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12	<p>Associated with High Strength Biodegradable Effluent Area.</p> <p>Treatment operations shall be limited to manual and/or mechanical mixing/blending of compatible wastes for pH adjustment of permitted waste for the purpose of disposal only.</p> <p>Waste types as specified in Table S2.5</p>
A7	Storage and mixing or blending of non-hazardous wastes pending disposal by biological treatment.	<p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)</p> <p>D13: Blending or mixing prior to submission to any of the operations numbered D1 to D12</p>	<p>Associated with Biological Treatment Plant in Tanks HSB A to J only.</p> <p>Treatment operations shall be limited to manual and/or mechanical:</p> <ul style="list-style-type: none"> - storage pending disposal - mixing or blending of wastes of permitted waste for the purpose of disposal only. <p>Waste types as specified in Table S2.5</p>

Activity Reference	Description of activities for waste operations	Limits of activities
A8 Asbestos transfer station	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)	<p>All hazardous and non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage.</p> <p>Asbestos waste shall be double bagged and stored within clearly identified, segregated, secure, lockable containers on an impermeable surface with sealed drainage.</p> <p>Activity limit of 40 tonnes at any one time.</p> <p>The maximum quantity of hazardous waste that can be stored at the site in total for recovery or disposal, (excluding end of life vehicles and/or waste electrical and electronic equipment stored pending manual dismantling, repair or refurbishment), shall not exceed 50 tonnes at any one time.</p> <p>There shall be no treatment of:</p> <ul style="list-style-type: none"> - asbestos waste - hazardous waste <p>other than bulking up for onward transfer.</p> <p>Waste types as specified in Table S2.6</p>

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions B2.1.2, to B2.1.23, given in pages 13 to 25 of the application, excluding sections B2.1.4, B2.1.5, B2.1.12, B2.1.13, B2.1.17, B2.1.18, and B2.1.19.	19/10/05
Supplementary document and additional information to questions in sections B2.2.10 to 2.12.1 of the application provided by Mekatek Limited in their letter to the Environment Agency dated 17 October 2005	The response to sections B2.2.12 to B2.2.44 given in the additional information excluding responses to sections B2.2.14, B2.2.15, B2.2.16, B2.2.18, B2.2.24 and B2.2.36.	19/10/05
Application for variation	The response to questions 1.2, 2.1 to 2.12 (inclusive), 3.1 and 4.1 to 4.3 (inclusive) in Part C of the Application Form.	02/01/08
Response to Schedule 7 Notice	Answers to questions 1 to 8 in response to the Schedule 7 notice dated 14 March 2008.	04/04/08
Improvement Programme	All reports and plans submitted and agreed with the Agency, as part the Improvement Programme shall form part of the sites operating techniques.	See Improvement Programme in Table 1.4.1 of original permit and previous variations.
Variation application EPR/YP3937SH/V005	Application supporting document dated 25 June 2018	29/06/18
Additional Information received	Composition of proposed antifoam	22/08/18
Fire prevention and mitigation plan guidance – Waste Management	All relevant sections	N/A
Fire prevention and mitigation plan	All relevant sections	In line with IC23
Response to regulation 61(1) Notice – request for information dated 05/04/2019 detailing how the Operator will comply with the BAT conclusions for Waste Treatment, under Directive 2010/75/EU of the European Parliament and of the Council	Consisting of email response	23/07/19
Additional information for regulation 61(1) Notice	Consisting of REG 61 response	27/09/19
	Consisting of WT BREF Response to request for further information received 20.08.2020 - DGL.V1.07.10.2020	07/10/20

Table S1.2 Operating techniques

Description	Parts	Date Received
	Email containing following documents:	27/04/21
	<ul style="list-style-type: none"> - QP 09 Quality Policy Statement V5 - QP 11C - Emergency Plan v5 expiry 11.2021 - QP 23 Environmental Policy Statement v6 - QP 65 - SPILLAGE RESPONSE v3 - QP 84 - Fire Prevention & Mitigation Plan Carmarthen v2 - QP 85 - Carmarthen Odour Management Plan v1 rev 05.2024 - QP 86 - Carmarthen Noise Management Plan Statement v1 rev 05.2024 - SOP 103 - EP - Monthly sample prep and collection - 2021 v4 - SOP 104 - EP - W1 Data management and reporting procedure v1 - SOP 105 - GROUP - Pre-assessment procedure - V3 04.2021 - SOP 112 - On site acceptance of waste - Carmarthen v2 - SWP 035 - EP - Sample collection and testing schedule v5 - SWP 117 - EP - MCERTS Procedure for Checking Flow Through Discharge Pipe v5 - SWP 371 - LAB - Toxicity Test v4 - SWP 412 - EP - Daily flow sample monitor checks v3 	
	Email containing following documents:	30/04/21
	<ul style="list-style-type: none"> • QP 13C - Emergency fire and evacuation procedure - Carmarthen V5 • SOP 117 - Effluent plant process flow and typical values 	

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
Improvement Conditions IC1 to IC17 of the original permit have been submitted and reports and plans submitted to and approved by the Regulator are now incorporated as site operating techniques via inclusion in Table S1.2.		
IC18 (V003)	<p>The Operator shall submit an Environmental Monitoring Programme which must contain documented objectives, design details and procedures to be adopted for site monitoring. The environmental monitoring programme shall incorporate specifications to include the following issues:</p> <ol style="list-style-type: none"> 1. management structure and technical competence; 2. monitoring objectives; 3. the number and location of monitoring points; 4. monitoring measurements; 5. monitoring schedules; 6. assessment and compliance criteria, and contingency actions; 7. design of monitoring points; 8. monitoring methodology; 9. data management and reporting procedures; 10. Quality Assurance including Quality Control measures for items 7, 8 and 9 above; 11. Requirement to trend and interpret data to determine Environmental Impact. <p>Control levels limits and Maximum Emission Limits shall be set within the plan, which as a minimum shall include the following metals and Cyanide:</p> <ol style="list-style-type: none"> (a) Zinc and its compounds as Zn; (b) Mercury and its compounds as Hg; (c) Cadmium and its compounds as Cd; (d) Lead and its compounds as Pb; (e) Nickel and its compounds as Ni; (f) Copper and its compounds as Cu; <p>The maximum emission limit for the first twelve months following receipt of the Environmental Monitoring Programme shall be based on the original permitted emission limit, or where exceeded, the maximum recorded value for monitoring data between 2007 – 2009 minus 10% (or less) unless agreed with the Regulator.</p> <p>The following substances shall also be included with the monitoring programme. Monthly, composite samples shall be taken for:</p> <ol style="list-style-type: none"> (a) Phosphate (b) Cyanide (c) Phenol <p>The operator shall ensure the Environmental Monitoring Programme includes a requirement to review and reduce the emission limits on an annual basis. The review must take into account relevant Environmental Quality Standards and site monitoring data. A full justification for each limit must be provided annually.</p> <p>The operator must have due regard to the requirements of 'Technical Guidance Note (Monitoring) M18 – Monitoring of Discharges to Water and Sewer' when preparing the programme. The report shall ensure that a review of the document is undertaken on an annual basis.</p>	<p>DUE: 30/06/10</p> <p>COMPLETED: 20/12/2017</p>

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC19 (V003)	The operator shall develop a documented dangerous substance and heavy metal identification and reduction program for implementation at the site. The programme shall identify measures to pre-treat wastes and / or enhance effluent treatment in order to minimise levels of dangerous substances and heavy metals prior to discharge via the authorised release point. A review of all available technologies to reduce dangerous substance and metal levels within the discharge shall form part of the reduction programme. Levels of dangerous substance and heavy metals within the influent to the plant shall also be assessed as part of the programme .The programme shall be reviewed on an annual basis.	DUE: 31/08/10 COMPLETED: 17/01/2018
IC20 (V003)	(a) The operator shall undertake an assessment of the impact on the water environment from the effluent treatment plant using all available data. The operator shall use the methodology prescribed in the Agency's guidance 'Environmental Assessment and Appraisal of BAT' (Ref. IPPC H1) in making this assessment. (b) Where the operator identifies substances present in the effluent that are considered significant, further detailed dilution modelling should be undertaken in order to obtain a more accurate estimate of process contributions than those obtained through using simplified calculation methods . A full written justification must be provided for the choice of modelling software used (other than H1) and the input parameters used in the model shall also be provided in full within the report. (c) The results of the modelling must be considered as part of the of the emission limit review required by the Environmental Monitoring Programme within IC18. The operator shall implement any improvements or measures as agreed in writing with the Regulator.	Superseded (See IC 35)
IC21 (V003)	The operator shall submit outline plans to improve the site infrastructure used for the waste transfer operations [transfer station] at the site. The improvements shall ensure that the full requirements of SGN S5.06 are complied with. A time table for completion of the proposed improvements shall also be provided within the submission.	DUE: 31/08/10 COMPLETED: 23/08/2017
IC22 (V003)	The operator shall submit outline plans to improve the site infrastructure used for the oil treatment operations at the site. The documented improvement plan shall ensure that the full requirements of SGN S5.06 are complied with. A time table for completion of the proposed improvements shall also be provided as part of the plan.	DUE: 30/09/10 COMPLETED: 23/08/2017
IC23	The operator shall submit a written Fire prevention and mitigation plan to Natural Resources Wales. The Fire prevention and mitigation plan must be produced in line with the standards set out in Fire prevention and mitigation plan guidance – Waste.	3 months after permit issue or otherwise agreed in writing with Natural Resources Wales
IC24	BAT 1. Implement and adhere to an environmental management system (EMS) The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 1 that incorporates all of the following features in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): XII. residues management plan (see description in Section 6.5);	17 February 2022 or otherwise agreed in writing with Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC25	<p>BAT 2. Improve the overall environmental performance of the plant</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 2 using all of the techniques given below in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>g. Sort solid incoming waste – S6.4</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC26	<p>BAT 4. Reduce the environmental risk associated with the storage of waste</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 4 using all of the techniques given below in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>a. Optimised storage location b. Adequate storage capacity c. Safe storage operation d. Separate area for storage & handling of packaged hazardous waste</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC27	<p>BAT 18: Techniques to prevent, or where not practicable reduce noise and vibration emissions.</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 18 using one or a combination of the following in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>a. Appropriate location of equipment and buildings b. Operational measures c. Low-noise equipment d. Noise & vibration control equipment e. Noise attenuation</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC28	<p>BAT 19 Optimise water consumption, reduce waste water generation and prevent/reduce emissions to soil and water</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 19 requiring the use of one or a combination of techniques in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>c. impermeable surface- information on how the site complies with CIRIA 736 or an equivalent engineering standard to which the surface complies together with sign off from construction by a Certified Quality Auditor.</p> <p>d. Reduce likelihood and impact of tank/vessel overflows and failures- provide a copy of the single plan detailing all of the control measure in one concise document to illustrate the controls in place more suitably.</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC29	<p>BAT 20 Reduce emissions to water</p> <p>The operator shall submit to Natural Resources Wales a written procedure(s) in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to:</p> <p>BAT 20 - In order to reduce emissions to water, BAT is to treat waste water using an appropriate combination of the techniques described within BAT 20 Table. BAT 20 applies to all sites that treat waste waters on site to reduce emissions prior to discharge.</p> <p>a, Operator is to provide information on how the Physico-chemical treatments listed within BAT 20 table are carried out.</p> <p>b. BAT-associated emission levels (BAT-AELs) for direct discharges to a receiving water body should comply with Table 6.1 of BAT 20.</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC30	<p>BAT 23 Use energy efficiently.</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 23 requiring the use both of the following techniques in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <p>a. Energy efficiency plan</p> <p>b. Energy balance record</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC31	<p>BAT 24 Reuse of Packaging</p> <p>The operator shall submit to Natural Resources Wales a Residues Management Plan in order to evidence compliance with BAT 24 (see also BAT 1 XII) in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018).</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC32	<p>BAT 33 biological treatment odour emissions</p> <p>The operator shall submit to Natural Resources Wales for approval information to evidence compliance with the following BAT requirements in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018):</p> <p>BAT 33 In order to reduce odour emissions and to improve the overall environmental performance, by selecting the waste input (to ensure its suitability for biological treatment).</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC33	<p>BAT 35 biological treatment generation of waste water and reduction of water usage</p> <p>The operator shall submit to Natural Resources Wales for approval information to evidence compliance with the following BAT requirements in accordance with requirements specified within BAT Conclusions of the Waste Treatment BREF Document (EU 2018):</p> <p>BAT 35 In order to reduce the generation of waste water and to reduce water usage, BAT is to use all of the techniques described within BAT 35 Table.</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC34	<p>BAT 52 Improve overall environmental performance by monitoring the waste input as part of the waste pre-acceptance and acceptance procedures.</p> <p>The operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT 52 (see also BAT 2) by monitoring the waste input of:</p> <ul style="list-style-type: none"> • Bioeliminability e.g. BOD, BOD-COD ratio, Zahn-Wellens test, biological inhibition potential • Feasibility of emulsion breaking e.g. lab testing <p>in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018).</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales
IC35	<p>The operator shall submit for approval information for priority hazardous substances and any other relevant substances for all discharges to surface waters. The emissions monitoring for these substances should be carried out using the methods and standards described in the M18 guidance on "Monitoring of discharges to water and sewer".</p> <p>With reference to the risk assessment guidance on the gov.uk website entitled "Surface water pollution risk assessment for your environmental permit the Operator is to carry out the following assessments:</p> <ul style="list-style-type: none"> – Screening tests for priority hazardous pollutants and any other relevant priority hazardous substances. – For any substance which is not screened out by the screening tests you will need to carry out modelling, as described in the risk assessment guidance "Surface water pollution risk assessment for your environmental permit". <p>You must provide us with the results from the emissions monitoring, the results from the screening tests and the results from any modelling.</p>	17 February 2022 or otherwise agreed in writing with Natural Resources Wales

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for Transfer Station

Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 250,000 tonnes per annum. Waste tonnages specific to each activity are given in Table S1.1
Exclusions	The following waste types set out in this table shall only be accepted at the Transfer Facility providing that a suitable recovery or disposal option has been predetermined. The permitted wastes shall only possess one or more of the following hazardous properties: <ul style="list-style-type: none"> • HP2 – Oxidising • HP3 – Flammable • HP4 – Irritant • HP5 – Harmful • HP6 – Toxic • HP7 – Carcinogenic • HP8 – Corrosive • HP9 – Infectious • HP12 – Substances and preparations which release toxic or very toxic gases in contact with water, air or an acid • HP15 – Substances and preparations capable by any means, after disposal, of yielding another substance, e.g. a leachate, which possesses and of the characteristics listed above • HP14 – Ecotoxic
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05	drilling muds and other drilling wastes
01 05 05*	oil-containing drilling muds and wastes
01 05 06*	drilling muds and other drilling wastes containing hazardous substances
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 08*	agrochemical waste containing hazardous substances
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 04*	sawdust, shavings, cuttings, wood, particle board and veneer containing hazardous substances
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 04*	inorganic wood preservatives
03 02 05*	other wood preservatives containing hazardous substances
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	wastes from the leather and fur industry
04 01 03*	degreasing wastes containing solvents without a liquid phase
04 02	wastes from the textile industry
04 02 14*	wastes from finishing containing organic solvents
04 02 16*	dyestuffs and pigments containing hazardous substances

04 02 19*	sludges from on-site effluent treatment containing hazardous substances
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01	wastes from petroleum refining
05 01 02*	desalter sludges
05 01 03*	tank bottom sludges
05 01 04*	acid alkyl sludges
05 01 05*	oil spills
05 01 06*	oily sludges from maintenance operations of the plant or equipment
05 01 07*	acid tars
05 01 08*	other tars
05 01 09*	sludges from on-site effluent treatment containing hazardous substances
05 01 11*	wastes from cleaning of fuels with bases
05 01 12*	oil containing acids
05 01 15*	spent filter clays
05 06	wastes from the pyrolytic treatment of coal
05 06 01*	acid tars
05 06 03*	other tars
05 07	wastes from natural gas purification and transportation
05 07 01*	wastes containing mercury
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 04	metal-containing wastes other than those mentioned in 06 03
06 04 03*	wastes containing arsenic
06 04 04*	wastes containing mercury
06 04 05*	wastes containing other heavy metals
06 05	sludges from on-site effluent treatment
06 05 02*	sludges from on-site effluent treatment containing hazardous substances
06 06	wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 02*	wastes containing hazardous sulphides
06 07	wastes from the MFSU of halogens and halogen chemical processes
06 07 01*	wastes containing asbestos from electrolysis
06 07 02*	activated carbon from chlorine production
06 07 03*	barium sulphate sludge containing mercury
06 07 04*	solutions and acids, for example contact acid
06 08	wastes from the MFSU of silicon and silicon derivatives
06 08 02*	wastes containing hazardous chlorosilanes
06 10	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and

	fertiliser manufacture
06 10 02*	wastes containing hazardous substances
06 13	wastes from inorganic chemical processes not otherwise specified
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides.
06 13 02*	spent activated carbon (except 06 07 02)
06 13 04*	wastes from asbestos processing
06 13 05*	soot
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 09*	halogenated filter cakes and spent absorbents
07 01 10*	other filter cakes and spent absorbents
07 01 11*	sludges from on-site effluent treatment containing hazardous substances
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 09*	halogenated filter cakes and spent absorbents
07 02 10*	other filter cakes and spent absorbents
07 02 11*	sludges from on-site effluent treatment containing hazardous substances
07 02 14*	wastes from additives containing hazardous substances
07 02 16*	wastes containing hazardous silicones
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 09*	halogenated filter cakes and spent absorbents
07 03 10*	other filter cakes and spent absorbents
07 03 11*	sludges from on-site effluent treatment containing hazardous substances
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 09*	halogenated filter cakes and spent absorbents
07 04 10*	other filter cakes and spent absorbents
07 04 11*	sludges from on-site effluent treatment containing hazardous substances
07 04 13*	solid wastes containing hazardous substances
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 09*	halogenated filter cakes and spent absorbents
07 05 10*	other filter cakes and spent absorbents
07 05 11*	sludges from on-site effluent treatment containing hazardous substances
07 05 13*	solid wastes containing hazardous substances
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 09*	halogenated filter cakes and spent absorbents
07 06 10*	other filter cakes and spent absorbents
07 06 11*	sludges from on-site effluent treatment containing hazardous substances
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 09*	halogenated filter cakes and spent absorbents
07 07 10*	other filter cakes and spent absorbents
07 07 11*	sludges from on-site effluent treatment containing hazardous substances
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 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances
08 01 17*	wastes from paint or varnish removal containing organic solvents or other hazardous substances
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
08 01 21*	waste paint or varnish remover
08 03	wastes from MFSU of printing inks
08 03 12*	waste ink containing hazardous substances
08 03 14*	ink sludges containing hazardous substances
08 03 16*	waste etching solutions
08 03 17*	waste printing toner containing hazardous substances
08 03 19*	disperse oil
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 04 11*	adhesive and sealant sludges containing organic solvents or other hazardous substances
08 04 13*	aqueous sludges containing adhesives or sealants containing organic solvents or other

	hazardous substances
08 04 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other hazardous substances
08 04 17*	rosin oil
08 05	wastes not otherwise specified in 08
08 05 01*	waste isocyanates
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 04*	oil fly ash and boiler dust
10 01 09*	sulphuric acid
10 01 13*	fly ash from emulsified hydrocarbons used as fuel
10 01 14*	bottom ash, slag and boiler dust from co-incineration containing hazardous substances
10 01 16*	fly ash from co-incineration containing hazardous substances
10 01 18*	wastes from gas cleaning containing hazardous substances
10 01 20*	sludges from on-site effluent treatment containing hazardous substances
10 01 22*	aqueous sludges from boiler cleansing containing hazardous substances
10 02	wastes from the iron and steel industry
10 02 07*	solid wastes from gas treatment containing hazardous substances
10 02 11*	wastes from cooling-water treatment containing oil
10 02 13*	sludges and filter cakes from gas treatment containing hazardous substances
10 03	wastes from aluminium thermal metallurgy
10 03 04*	primary production slags
10 03 08*	salt slags from secondary production
10 03 09*	black drosses from secondary production
10 03 15*	skimmings that are flammable or emit, upon contact with water, flammable gases in hazardous quantities
10 03 17*	tar-containing wastes from anode manufacture
10 03 19*	flue-gas dust containing hazardous substances
10 03 21*	other particulates and dust (including ball-mill dust) containing hazardous substances
10 03 23*	solid wastes from gas treatment containing hazardous substances
10 03 25*	sludges and filter cakes from gas treatment containing hazardous substances
10 03 27*	wastes from cooling-water treatment containing oil
10 03 29*	wastes from treatment of salt slags and black drosses containing hazardous substances
10 04	wastes from lead thermal metallurgy
10 04 01*	slags from primary and secondary production
10 04 02*	dross and skimmings from primary and secondary production
10 04 03*	calcium arsenate
10 04 04*	flue-gas dust
10 04 05*	other particulates and dust
10 04 06*	solid wastes from gas treatment

10 04 07*	sludges and filter cakes from gas treatment
10 04 09*	wastes from cooling-water treatment containing oil
10 05	wastes from zinc thermal metallurgy
10 05 03*	flue-gas dust
10 05 05*	solid waste from gas treatment
10 05 06*	sludges and filter cakes from gas treatment
10 05 08*	wastes from cooling-water treatment containing oil
10 05 10*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in hazardous quantities
10 06	wastes from copper thermal metallurgy
10 06 03*	flue-gas dust
10 06 06*	solid wastes from gas treatment
10 06 07*	sludges and filter cakes from gas treatment
10 06 09*	wastes from cooling-water treatment containing oil
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 07*	wastes from cooling-water treatment containing oil
10 08	wastes from other non-ferrous thermal metallurgy
10 08 10*	dross and skimmings that are flammable or emit, upon contact with water, flammable gases in hazardous quantities
10 08 12*	tar-containing wastes from anode manufacture
10 08 15*	flue-gas dust containing hazardous substances
10 08 17*	sludges and filter cakes from flue-gas treatment containing hazardous substances
10 08 19*	wastes from cooling-water treatment containing oil
10 09	wastes from casting of ferrous pieces
10 09 05*	casting cores and moulds which have not undergone pouring containing hazardous substances
10 09 07*	casting cores and moulds which have undergone pouring containing hazardous substances
10 09 09*	flue-gas dust containing hazardous substances
10 09 11*	other particulates containing hazardous substances
10 09 15*	waste crack-indicating agent containing hazardous substances
10 10	wastes from casting of non-ferrous pieces
10 10 05*	casting cores and moulds which have not undergone pouring, containing hazardous substances
10 10 07*	casting cores and moulds which have undergone pouring, containing hazardous substances
10 10 09*	flue-gas dust containing hazardous substances
10 10 11*	other particulates containing hazardous substances
10 10 13*	waste binders containing hazardous substances
10 10 15*	waste crack-indicating agent containing hazardous substances
10 11	wastes from manufacture of glass and glass products
10 11 09*	waste preparation mixture before thermal processing, containing hazardous substances
10 11 11*	waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
10 11 13*	glass-polishing and -grinding sludge containing hazardous substances
10 11 15*	solid wastes from flue-gas treatment containing hazardous substances
10 11 17*	sludges and filter cakes from flue-gas treatment containing hazardous substances
10 11 19*	solid wastes from on-site effluent treatment containing hazardous substances
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 09*	solid wastes from gas treatment containing hazardous substances
10 12 11*	wastes from glazing containing heavy metals

10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 09*	wastes from asbestos-cement manufacture containing asbestos
10 13 12*	solid wastes from gas treatment containing hazardous substances
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 09*	sludges and filter cakes containing hazardous substances
11 01 11*	aqueous rinsing liquids containing hazardous substances
11 01 13*	degreasing wastes containing hazardous substances
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing hazardous substances
11 01 16*	saturated or spent ion exchange resins
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 05*	wastes from copper hydrometallurgical processes containing hazardous substances
11 02 07*	other wastes containing hazardous substances
11 03	sludges and solids from tempering processes
11 03 01*	wastes containing cyanide
11 03 02*	other waste
11 05	wastes from hot galvanising processes
11 05 03*	solid wastes from gas treatment
11 05 04*	spent flux
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 12*	spent waxes and fats
12 01 14*	machining sludges containing hazardous substances
12 01 16*	waste blasting material containing hazardous substances
12 01 18*	metal sludge (grinding, honing and lapping sludge) containing oil
12 01 19*	readily biodegradable machining oil
12 01 20*	spent grinding bodies and grinding materials containing hazardous substances
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
14	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)
14 06	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 01*	chlorofluorocarbons, HCFC, HFC
14 06 02*	other halogenated solvents and solvent mixtures
14 06 03*	other solvents and solvent mixtures
14 06 04*	sludges or solid wastes containing halogenated solvents
14 06 05*	sludges or solid wastes containing other solvents
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances
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 07*	oil filters
16 01 09*	components containing PCBs
16 01 11*	brake pads containing asbestos
16 01 13*	brake fluids
16 01 14*	antifreeze fluids containing hazardous substances
16 01 21*	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
16 02	wastes from electrical and electronic equipment
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 12*	discarded equipment containing free asbestos
16 02 13*	discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
16 02 15*	hazardous components removed from discarded equipment
16 03	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances
16 03 05*	organic wastes containing hazardous substances
16 05	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
16 05 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
16 06	batteries and accumulators
16 06 01*	lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	mercury-containing batteries
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 02*	spent catalysts containing hazardous transition metals or hazardous transition metal compounds
16 08 05*	spent catalysts containing phosphoric acid
16 08 06*	spent liquids used as catalysts
16 08 07*	spent catalysts contaminated with hazardous substances
16 09	oxidising substances
16 09 01*	permanganates, for example potassium permanganate
16 09 02*	chromates, for example potassium chromate, potassium or sodium dichromate
16 09 03*	peroxides, for example hydrogen peroxide
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 03*	aqueous concentrates containing hazardous substances
16 11	waste linings and refractories
16 11 01*	carbon-based linings and refractories from metallurgical processes containing hazardous substances
16 11 03*	other linings and refractories from metallurgical processes containing hazardous substances
16 11 05*	linings and refractories from non-metallurgical processes containing hazardous substances
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 06*	mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing hazardous substances
17 02	wood, glass and plastic
17 02 04*	glass, plastic and wood containing or contaminated with hazardous substances
17 03	bituminous mixtures, coal tar and tarred products
17 03 01*	bituminous mixtures containing coal tar
17 03 03*	coal tar and tarred products
17 04	metals (including their alloys)
17 04 09*	metal waste contaminated with hazardous substances
17 04 10*	cables containing oil, coal tar and other hazardous substances
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03*	soil and stones containing hazardous substances
17 05 05*	dredging spoil containing hazardous substances
17 05 07*	track ballast containing hazardous substances
17 06	insulation materials and asbestos-containing construction materials
17 06 01*	insulation materials containing asbestos
17 06 03*	other insulation materials consisting of or containing hazardous substances
17 06 05*	construction materials containing asbestos
17 08	gypsum-based construction material
17 08 01*	gypsum-based construction materials contaminated with hazardous substances
17 09	other construction and demolition wastes
17 09 01*	construction and demolition wastes containing mercury
17 09 02*	construction and demolition wastes containing PCB (for example PCB-containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors)
17 09 03*	other construction and demolition wastes (including mixed wastes) containing hazardous substances

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 02	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 05*	chemicals consisting of or containing hazardous substances
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 05*	filter cake from gas treatment
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 01 07*	solid wastes from gas treatment
19 01 10*	spent activated carbon from flue-gas treatment
19 01 11*	bottom ash and slag containing hazardous substances
19 01 13*	fly ash containing hazardous substances
19 01 15*	boiler dust containing hazardous substances
19 01 17*	pyrolysis wastes containing hazardous substances
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 04*	premixed wastes composed of at least one hazardous waste
19 02 05*	sludges from physico/chemical treatment containing hazardous substances
19 02 07*	oil and concentrates from separation
19 02 08*	liquid combustible wastes containing hazardous substances
19 02 09*	solid combustible wastes containing hazardous substances
19 02 11*	other wastes containing hazardous substances
19 03	stabilised/solidified wastes
19 03 04*	wastes marked as hazardous, partly stabilised other than 19 03 08
19 03 06*	wastes marked as hazardous, solidified
19 04	vitrified waste and wastes from vitrification
19 04 02*	fly ash and other flue-gas treatment wastes
19 04 03*	non-vitrified solid phase
19 07	landfill leachate
19 07 02*	landfill leachate containing hazardous substances
19 08	wastes from waste water treatment plants not otherwise specified
19 08 06*	saturated or spent ion exchange resins
19 08 07*	solutions and sludges from regeneration of ion exchangers
19 08 08*	membrane system waste containing heavy metals
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 13*	sludges containing hazardous substances from other treatment of industrial waste water
19 10	wastes from shredding of metal-containing wastes
19 10 03*	fluff-light fraction and dust containing hazardous substances
19 10 05*	other fractions containing hazardous substances
19 11	wastes from oil regeneration
19 11 01*	spent filter clays
19 11 02*	acid tars
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 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 06*	wood containing hazardous substances
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances
19 13	wastes from soil and groundwater remediation
19 13 01*	solid wastes from soil remediation containing hazardous substances
19 13 03*	sludges from soil remediation containing hazardous substances
19 13 05*	sludges from groundwater remediation containing hazardous substances
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing hazardous substances
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 13*	solvents
20 01 14*	acids
20 01 15*	alkalines
20 01 17*	photochemicals
20 01 19*	pesticides
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
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 29*	detergents containing hazardous substances
20 01 31*	cytotoxic and cytostatic medicines
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 37*	wood containing hazardous substances

Table S2.2 Permitted waste types and quantities for High Strength Biodegradable Effluent Area

Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 250,000 tonnes per annum. Waste tonnages specific to each activity are given in Table S1.1
Exclusions	The permitted wastes within this table shall only be accepted at the High Strength Biodegradable Effluent Area providing that the wastes are biodegradable or enhance the biodegradation processes. The permitted wastes shall only possess one or more of the following hazardous properties: <ul style="list-style-type: none"> • HP3 – Flammable • HP4 – Irritant • HP5 – Harmful • HP7 – Carcinogenic
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05	drilling muds and other drilling wastes
01 05 05*	oil-containing drilling muds and wastes
01 05 06*	drilling muds and other drilling wastes containing hazardous substances
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02	wastes from the textile industry
04 02 16*	dyesuffs and pigments containing hazardous substances
04 02 19*	sludges from on-site effluent treatment containing hazardous substances
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
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 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 05	sludges from on-site effluent treatment
06 05 02*	sludges from on-site effluent treatment containing hazardous substances
06 10	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
06 10 02*	wastes containing hazardous substances
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 11*	sludges from on-site effluent treatment containing hazardous substances
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 11*	sludges from on-site effluent treatment containing hazardous substances
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 11*	sludges from on-site effluent treatment containing hazardous substances
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 11*	sludges from on-site effluent treatment containing hazardous substances
07 05	wastes from the MFSU of pharmaceuticals
07 05 01*	aqueous washing liquids and mother liquors
07 05 11*	sludges from on-site effluent treatment containing hazardous substances
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 11*	sludges from on-site effluent treatment containing hazardous substances
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 11*	sludges from on-site effluent treatment containing hazardous substances
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 03	wastes from MFSU of printing inks
08 03 12*	waste ink containing hazardous substances
08 03 14*	ink sludges containing hazardous substances
08 03 16*	waste etching solutions
08 03 17*	waste printing toner containing hazardous substances
08 03 19*	disperse oil
08 04	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 13*	aqueous sludges containing adhesives or sealants containing organic solvents or other hazardous substances
08 04 15*	aqueous liquid waste containing adhesives or sealants containing organic solvents or other hazardous substances
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 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 20*	sludges from on-site effluent treatment containing hazardous substances
10 01 22*	aqueous sludges from boiler cleansing containing hazardous substances
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 09*	sludges and filter cakes containing hazardous substances

11 01 11*	aqueous rinsing liquids containing hazardous substances
11 01 13*	degreasing wastes containing hazardous substances
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing hazardous substances
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances
16 03 05*	organic wastes containing hazardous substances
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 07*	discarded inorganic chemicals consisting of or containing hazardous substances
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 09*	wastes containing other hazardous substances
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 03*	aqueous concentrates containing hazardous substances
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 07	landfill leachate
19 07 02*	landfill leachate containing hazardous substances
19 08	wastes from waste water treatment plants not otherwise specified
19 08 07*	solutions and sludges from regeneration of ion exchangers
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 13*	sludges containing hazardous substances from other treatment of industrial waste water
19 13	wastes from soil and groundwater remediation
19 13 03*	sludges from soil remediation containing hazardous substances
19 13 05*	sludges from groundwater remediation containing hazardous substances
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing hazardous substances
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 15*	alkalines
20 01 17*	photochemicals

Table S2.3 Permitted waste types and quantities for Free Oil Separation Area

Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 250,000 tonnes per annum. Waste tonnages specific to each activity are given in Table S1.1
Exclusions	The following wastes types shall only be accepted at the Free Oil Separation Area providing that the wastes are recoverable or enhance the recovery processes. The permitted wastes shall not contain PCBs at a concentration equal to or greater than 50 parts per million and shall only possess one or more of the following hazardous properties: <ul style="list-style-type: none"> • HP3 – Flammable • HP4 – Irritant • HP5 – Harmful • HP7 – Carcinogenic • HP8 – Corrosive
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05	drilling muds and other drilling wastes
01 05 05*	oil-containing drilling muds and wastes
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01	wastes from petroleum refining
05 01 02*	desalter sludges
05 01 03*	tank bottom sludges
05 01 04*	acid alkyl sludges
05 01 05*	oil spills
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 03	wastes from MFSU of printing inks
08 03 19*	disperse oil
10	WASTES FROM THERMAL PROCESSES
10 02	wastes from the iron and steel industry
10 02 11*	wastes from cooling-water treatment containing oil
10 03	wastes from aluminium thermal metallurgy
10 03 27*	wastes from cooling-water treatment containing oil
10 04	wastes from lead thermal metallurgy
10 04 09*	wastes from cooling-water treatment containing oil
10 05	wastes from zinc thermal metallurgy
10 05 08*	wastes from cooling-water treatment containing oil
10 06	wastes from copper thermal metallurgy
10 06 09*	wastes from cooling-water treatment containing oil
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 07*	wastes from cooling-water treatment containing oil
10 08	wastes from other non-ferrous thermal metallurgy
10 08 19*	wastes from cooling-water treatment containing oil
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 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 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 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 03 10*	other 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 01*	solids from grit chambers and oil/water separators
13 05 02*	sludges from oil/water separators
13 05 03*	interceptor sludges
13 05 06*	oil from oil/water separators
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 01*	fuel oil and diesel
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
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances
16 03 05*	organic wastes containing hazardous substances
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 08*	wastes containing oil
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 03*	aqueous concentrates containing hazardous substances
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 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 07*	oil and concentrates from separation
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
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 26*	oil and fat other than those mentioned in 20 01 25

Table S2.4 Permitted waste types and quantities for Soluble Oil Facility	
Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 250,000 tonnes per annum. Waste tonnages specific to each activity are given in Table S1.1
Exclusions	The following permitted waste types shall only be accepted at the Soluble Oil Facility providing that the wastes are recoverable or enhance the recovery processes. The permitted wastes shall only possess one or more of the following hazardous properties: <ul style="list-style-type: none"> • HP3 – Flammable • HP4 – Irritant • HP5 – Harmful • HP7 – Carcinogenic • HP8 – Corrosive
Waste code	Description
10	WASTES FROM THERMAL PROCESSES
10 04	wastes from lead thermal metallurgy
10 04 09*	wastes from cooling-water treatment containing oil
10 05	wastes from zinc thermal metallurgy
10 05 08*	wastes from cooling-water treatment containing oil
10 06	wastes from copper thermal metallurgy
10 06 09*	wastes from cooling-water treatment containing oil
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 07*	wastes from cooling-water treatment containing oil
10 08	wastes from other non-ferrous thermal metallurgy
10 08 19*	wastes from cooling-water treatment containing oil
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 11*	aqueous rinsing liquids containing hazardous substances
11 01 13*	degreasing wastes containing hazardous substances
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing hazardous substances
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 09*	machining emulsions and solutions free of halogens
12 01 10*	synthetic machining oils
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 05*	non-chlorinated emulsions
13 08	oil wastes not otherwise specified
13 08 01*	desalter sludges or emulsions
13 08 02*	other emulsions
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 07*	oil filters
16 03	off-specification batches and unused products
16 03 03*	inorganic wastes containing hazardous substances
16 03 05*	organic wastes containing hazardous substances
16 07	wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 08*	wastes containing oil
16 10	aqueous liquid wastes destined for off-site treatment
16 10 01*	aqueous liquid wastes containing hazardous substances
16 10 03*	aqueous concentrates containing hazardous substances
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 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 07*	oil and concentrates from separation
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
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 26*	oil and fat other than those mentioned in 20 01 25

Table S2.5 Permitted waste types and quantities for Biological Treatment Plant, High Strength Biodegradable Effluent Area DAA and Biological Treatment Plant DAA

Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 250,000 tonnes per annum. Waste tonnages specific to each activity are given in Table S1.1
Exclusions	The following permitted waste types shall only be accepted at the Biological Treatment Plant and High Strength Biodegradable Effluent Area providing that the wastes are biodegradable or enhance the biodegradation processes.
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05	drilling muds and other drilling wastes
01 05 04	freshwater drilling muds and wastes

Table S2.6 Permitted waste types and quantities for asbestos transfer station

Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 250,000 tonnes per annum. Waste tonnage specific to the activity is given in Table S1.1
Exclusions	None
Waste code	Description
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 06	insulation materials and asbestos-containing construction materials
17 06 01*	insulation materials containing asbestos
17 06 05*	construction materials containing asbestos

Schedule 3 (a) – Emissions and monitoring effective until 16 August 2022

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 as shown on the plan in Schedule 7	Boiler Plant and stack	None set	None set	None set	None set	None set

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 as shown on the plan in Schedule 7	Treated liquid effluent from the biological treatment plant, and roof and surface waters via the treatment plant.	Suspended solids	75 mg/l (winter period) ¹	Monthly analysis of bulk daily sample.	Continuous flow proportional sample over 24-hours.	
			60 mg/l (summer period) ²			
		Total ammonium as N	20 mg/l (winter period) ¹	Spot sample	Daily	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.
			15 mg/l (summer period) ²			
		Biochemical oxygen demand (5 day)	75 mg/l (winter period) ¹		Monthly	
			40 mg/l (summer period) ²			
		Oils and grease	No visible release	Visual inspection	Daily	
		Temperature	≤24°C	Spot readings	Three readings per day reported as daily averages	
		pH	6 to 8.5	Continuous	Continuous, reported as daily averages	
		Flow	39 l/second			
			2500 m³/day		Continuous	

Footnote 1: winter period is defined as 01 October to 31 March.

Footnote 2: summer period is defined as 01 April to 30 September.

Table S3.3 Annual limits

Substance	Medium	Limit (including unit)
Total ammonium as N	Water via W1 on effluent water quality location plan	4197 kg
Mercury and its compounds as Hg		0.274 kg
Cadmium and its compounds as Cd		0.921 kg

Table S3.4 Surface water or groundwater monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
W1 as shown on the plan in Schedule 7	Mercury and its compounds as Hg	Monthly.	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator	None
	Cadmium and its compounds as Cd	Continuous flow proportional sample over 24-hours.		
	Lead and its compounds as Pb			
	Nickel and its compounds as Ni			
	Zinc and its compounds as Zn			
	Chromium and its compounds as Cr			
	Copper and its compounds as Cu			

Schedule 3 (b) – Emissions and monitoring effective from 17 August 2022

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 as shown on the plan in Schedule 7	Boiler Plant and stack	None set	None set	None set	None set	None set

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 as shown on the plan in Schedule 7	Treated liquid effluent from the biological treatment plant, and roof and surface waters via the treatment plant.	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	Continuous flow proportional sample over 24-hours.	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.
		Total ammonium as N	20 mg/l (winter period) ¹	Spot sample	Daily	
			15 mg/l (summer period) ²			
		Biochemical oxygen demand (5 day)	75 mg/l (winter period) ¹		Monthly	
			40 mg/l (summer period) ²			
		Oils and grease	No visible release	Visual inspection	Daily	

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
		Temperature	≤24°C	Spot readings	Three readings per day reported as daily averages	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.
		pH	6 to 8.5	Continuous	Continuous, reported as daily averages	
		Flow	39 l/second		Continuous	
			2500 m³/day			
		Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	Once every day	Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)
		Chromium and its compounds as Cr	0.15mg			
		Copper and its compounds as Cu	0.5mg			
		Lead and its compounds as Pb	0.1mg			
		Nickel and its compounds as Ni	0.5mg			
		Zinc and its compounds as Zn	1mg			
		Mercury and its compounds as Hg	5 ug/l			Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
		Free cyanide (CN ⁻)	0.1mg	None set	Once every day	Various EN standards available (i.e. EN ISO 14403-1 and -2)
		PFOA	None set	None set	Once every six months	No EN standard available
		PFOS	None set	None set		
		Phenol index	0.3mg	None set	Once every day	EN ISO 14402
		Total nitrogen (Total N)	25 mg/l	None set	Once every day	EN 12260, EN ISO 11905-1
		Total organic carbon (TOC)	60 mg/l	None set	Once every day	EN 1484
		Total phosphorus (Total P)	2 mg/l	None set	Once every day	Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)

Footnote 1: winter period is defined as 01 October to 31 March.

Footnote 2: summer period is defined as 01 April to 30 September

Table S3.3 Annual limits		
Substance	Medium	Limit (including unit)
Total ammonium as N	Water via W1 on effluent water quality location plan	4197 kg
Mercury and its compounds as Hg		0.274 kg
Cadmium and its compounds as Cd		0.921 kg

Schedule 4 (a) – Reporting until 16 August 2022

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 water Parameters as required by condition 3.5.1	W1 as shown on the plan in Schedule 7	Every 3 months	01/06/06

Table S4.2: Annual production/treatment

Parameter	Units
Waste disposal and/or recovery	tonnes
Total ammonium as N kg / year	kg/year
Mercury and its compounds as Hg	kg/year
Cadmium and its compounds as Cd	kg/year
Water treated through biological effluent treatment plant	m ³
Mains water used	m ³
Water abstraction from site borehole	m ³
Abstraction from Tawelan Brook	m ³

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Biological effluent treatment plant waste treatment throughput	Quarterly	m ³
Mains water usage per unit of waste biologically treated	Quarterly	m ³ / tonnes
Abstracted water usage per unit of waste biologically treated	Quarterly	m ³ / tonnes
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Generation of residues	Annually	tonnes
Generation of waste water	Annually	m ³

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	31/03/10
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	XX/XX/XX
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	XX/XX/XX
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	XX/XX/XX

Schedule 4 (b) – Reporting effective from 17 August 2022

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 water Parameters as required by condition 3.5.1	W1	Every 3 months	01/06/06

Table S4.2: Annual production/treatment	
Parameter	Units
Waste disposal and/or recovery	tonnes
Total ammonium as N kg / year	kg/year
Mercury and its compounds as Hg	kg/year
Cadmium and its compounds as Cd	kg/year
Water treated through biological effluent treatment plant	m ³
Mains water used	m ³
Water abstraction from site borehole	m ³
Abstraction from Tawelan Brook	m ³

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Biological effluent treatment plant waste treatment throughput	Quarterly	m ³
Mains water usage per unit of waste biologically treated	Quarterly	m ³ / tonnes
Abstracted water usage per unit of waste biologically treated	Quarterly	m ³ / tonnes
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Generation of residues	Annually	tonnes
Generation of waste water	Annually	m ³

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	31/03/10
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	N/A
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	XX/XX/XX

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	XX/XX/XX
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	17/08/22

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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment Or 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 permit condition	
To be notified within 24 hours of detection	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

Measures taken, or intended to be taken, to stop the emission	
---	--

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

(c) In the event 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:	
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.

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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 Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

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

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 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

“hazardous waste” has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

“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

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

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

“Pests” means Birds, Vermin and Insects.

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

“recovery” or “R” 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.

‘residue’ means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“Waste code” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) 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.

“*Waste Treatment BAT Conclusions*” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

“*WEEE*” means waste electrical and electronic equipment.

“*WEEE Directive*” means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

“*year*” means calendar year ending 31 December.

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

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

Schedule 7 - Site plan



Permit YP3937SH - Schedule 7 Site Plan

- A1, Source -Boiler Plant and Stack
- W1 Source Treated liquid effluent from the biological treatment plant, and roof and surface waters via the treatment plant
- Permit Boundary

END OF PERMIT